The success of incubation may vary according to different factors. The manufacturer and distributor are not responsible for failure of incubation of costly eggs, loss of life, property damage due to negligence of user, remodeling, painting, modification of purpose of use or power failure. When incubating parrot or costly birds please verify the internal temperature for using the product.

### Power-related precautions
- Do not use damaged power cord, plug or loose socket. ► It may cause electric shock or fire.
- Do not pull the power cord to disconnect nor touch the plug with wet hands. ► It may cause electric shock or fire.
- Do not disconnect the plug during incubation. ► The egg may die due to suspension of incubation.
- Do not forcibly bend the power plug or cord, nor put any heavy object on them which may cause damage. ► It may cause electric shock or fire.
- Do not connect on socket with many extensions nor by connecting the power plugs. ► It may cause fire.

### Precautions on installation and use
- Do not install the product in dusty or unclean places. ► If the dust or any alien substance is introduced to the interior they may cause electric shock or fire.
- Do not install the product under direct sunlight. ► It may cause electric shock or fire.
- Do not install the product in wet or moist places. ► It may cause electric shock or fire.
- Avoid too cold or hot place and do not dispose the product near candles, mosquito coil to coil, cigarette fire or any heating equipment.
- Do not use any other part than assigned ones. ► It may cause breakdown or failure of incubation.
- Do not block the ventilation hole with cover. ► Lack of ventilation may cause an increase in internal temperature and result in breakdown or fire.
- Do not have any heating device near the power cord. ► When the cord sheath is melted it may cause fire or electric shock.
- Do not place on a moving shelf, inclined place, unstable place or any place with severe vibration. ► Product may fall resulting in breakdown or damage. The vibration may reduce the life expectation of the product.
- Do not overturn the product. ► The water within the main body may pour onto electronics or the sight glass may be damaged.
- Do not let a child assemble the product. Must be assembled by a competent adult.

### Explanation on Signs

| Means Forbidden | Means the errors which may produce failure of incubation, trouble or damage that require attention. |
| Means Do not disassemble | Means Please disconnect the power plug from the power source. |
| Means Do not contact | Means the earthing to prevent electric shock. |
| Means the helpful information or reference for using the product | Means the possibility of injury or material loss of equipment when the designated instruction is not observed. |
Egg Incubator and Hatcher Rcom Eco Pro Plus 10 User Manual

1. COMPOSITION

Rcom 10

First of all thanks to every customer who purchased our Rcom 10.
The Rcom 10 automatically creates and maintains an optimal incubation environment using state-of-the-art technology digital control methods and has been designed for easy and simple use. The Rcom 10 provides the optimal environment, however the user needs to carefully observe and adjust environmental factors such as temperature, humidity, installation location and other conditions necessary for the incubation of different kind of birds. Even though the Rcom 10 is designed to provide the optimal setting for every kind of environment necessary for the incubation of eggs, we sincerely suggest you carefully read the instructions before use to allow for the successful incubation and proper use of the device.

Dominant advantages of Rcom 10

[M A I N  F U N C T I O N S]  
* Special mechanism without egg rotation noise.  
* Streamlined high quality design in the shape of an egg  
* Clean and transparent large view-window  
* One-touch separation of electronic controller assembly allows convenient cleaning  
* Design incorporates principles to reduce germ reproduction such as minimizing interior mechanisms which reduced the opportunity for bacterial propagation  
* Variable air control lever which enables the interior air volume of the device, to be altered.  
* Artificial intelligence based electronics with the state-of-the-art controlling technology designed by Rcom  
* Capacity of simultaneous hatching of 10~15 standard size eggs.  
* Rotational Heater Support which enables the easy adjustment of heater tension.  
* Air control lever which induces the fresh exterior air minimizing the effects on the insulation.  
* Integrated candling facility.  
* Automatic egg rotating function (rotating disk method) with adjustable egg rotation timing(±1h, 2h, 3h)  
* Ability to adjust the egg rotation angle.  
* Improved reliability based on the application of 3rd Generation Temperature-Humidity Sensor of Sensirion Co. Ltd. (Switzerland)  
* Convenient humidification device based on the Automatic Pumping System(A.P.S) for humidification  
* Automatic temperature, humidity adjustment and setup functions.  
* Automatic temperature adjustment and setup functions.  
* Manual temperature, humidity adjustment and setup functions.

[ C O N V E N I E N T  F U N C T I O N S]  
* Clamped structure which prevents the leakage of water drops inside the view-window (dew condensation) out of the device.  
* One touch separation of upper part (main controller) for convenient cleaning after incubation and reparation.  
* External water input hole and moisturizing device for easy supply of water for moisturizing.  
* Egg Tray which can simultaneously store different types of eggs.  
* Incorporated LED internal lighting.  
* Large LCD display which enables the easy view of the diverse information on the device  
* Function of switching Celsius and Fahrenheit degrees  
* Alarm and sign which notices the abnormal temperature (high and low) for suddent change of external temperature  
* Applied Water Nipple for easy supply of water for moisturizing  
* Convenient method of manual egg rotating function  

※The ECO model is for manual egg rotation method. By installing the additional automatic egg rotating unit (sold seperately) the eggs are automatically rotated once every hour.
※The PRO model does not include the APS. By installing the additional APS (sold seperately) it can be used as PRO PLUS model.
**Name of each part**

**Basic Composition**

**PRO PLUS 10**

* The Serial No. of the product is noted on the left side of the main controller. Please do not damage it. (Ex: RCM0000000)

* The air filter (1 set: 5 units) and humidity pad are sold separately.

**PRO 10**

* The Serial No. of the product is noted on the left side of the main controller. Please do not damage it. (Ex: RCM0000000)

* The air filter (1 set: 5 units) and humidity pad are sold separately.

**Composition of Automatic Pumping System (APS)**

See video on how to assemble and operate Automatic pumping system (APS).

**1. COMPOSITION**

<table>
<thead>
<tr>
<th>Name of each part</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Main Controller</td>
</tr>
<tr>
<td>• View Window</td>
</tr>
<tr>
<td>• Turning Disk</td>
</tr>
<tr>
<td>• Egg Tray</td>
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<tr>
<td>• Bottom Body</td>
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<tr>
<td>• Adapter, Power Cord</td>
</tr>
<tr>
<td>• Air filter</td>
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<tr>
<td>• Manual</td>
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<tr>
<td>• Humidity Pad</td>
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<tr>
<td>• APS SET</td>
</tr>
</tbody>
</table>

**Name and function of operational parts**

- **Pump Case**
  - 3.5cm (diameter: Ø2.6 * 3.5)
- **Pump Main Body**
  - 1.5m (diameter: Ø2.6 * 3.5)
- **Roller**
- **Gear**
- **Pumping Motor**
- **Pump Frame**
- **Silicon Tube and Nipple (3pcs.)**
1. Display (LCD) : Shows the incubation environment.
2. Automatic Pumping System (APS) connection socket : It is the socket which connects the APS to the device.
3. Power adaptor connection socket : This socket allows power into to the device.
4. Up button : Used to select menu or to increase value.
5. Down button : Used to select menu or to decrease value.
6. Menu selection button : Button to save setup values.
7. Candling zone : Used as candling device by pressing the Candling button.
8. Candling button / Back button : Used to turn ON/OFF the candling function or to go back to previous step in setup selections.

See Video on Icon's, Name's of buttons and Performance of function's

<table>
<thead>
<tr>
<th>ICON</th>
<th>Name and function</th>
<th>ICON</th>
<th>Name and function</th>
</tr>
</thead>
<tbody>
<tr>
<td>🐣</td>
<td>Chicken ↔</td>
<td>🌡️</td>
<td>Shows Temperature / Optional function</td>
</tr>
<tr>
<td>🐢</td>
<td>Pheasant ↔</td>
<td>🐣</td>
<td>Shows operating Egg rotation</td>
</tr>
<tr>
<td>🐦</td>
<td>Other birds ↔</td>
<td>🐣</td>
<td>Shows Egg rotation suspended</td>
</tr>
<tr>
<td>🦆</td>
<td>Quail ↔</td>
<td>🐣</td>
<td>Shows Terminated Egg rotation</td>
</tr>
<tr>
<td>🦆</td>
<td>Duck (according to above order)</td>
<td>🐣</td>
<td>Shows operating Egg rotation</td>
</tr>
<tr>
<td>⏳</td>
<td>Days until hatching</td>
<td>🔥</td>
<td>Shows Heater OFF/ON</td>
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<td>🔥</td>
<td>/</td>
<td>🔥</td>
<td>Shows humidity units</td>
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<td>🔥</td>
<td>/</td>
<td>🔥</td>
<td>Shows Humidification OFF/ON</td>
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<td>/</td>
<td>🔥</td>
<td>Shows humidity value</td>
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<td>/</td>
<td>🔥</td>
<td>Shows unit of Celsius / Fahrenheit</td>
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<tr>
<td>🔥</td>
<td>/</td>
<td>🔥</td>
<td>Shows blackout notification</td>
</tr>
</tbody>
</table>

Explanation on Optional Functions

1. T.CAL (Temperature calibration) It is not recommendable direct adjustment by user. Please contact agent or supplier.
2. H.CAL (Humidity calibration) It is not recommendable direct adjustment by user. Please contact agent or supplier.
3. HI (Abnormal high temperature alarm) Sounds alarm when the incubator temperature is higher than setup value, due to external environmental change or other anomaly. 0.0℃ ~ 5.0℃ [Default value : 2.0℃] modified by 1 degree unit.
4. LO (Abnormal low temperature alarm) Sounds alarm when the incubator temperature is lower than setup value due to external environmental change or other anomaly. 0.0℃ ~ 5.0℃ [Default value : -3.0℃] modified by 1 degree unit.
5. C/F (Celsius/Fahrenheit modification) Modification of Celsius (℃), Fahrenheit (℉) degrees [Default value : Celsius (℃)].
6. B.Lt (Back light setup) LCD backlight ON/OFF/EVENT ON setup [Default value : ON].
7. In.L (Interior lighting setup) Device’s interior lighting ON/OFF setup [Default value : ON].
8. Snd (Sound) Device’s button sound ON/OFF setup [Default value : ON].
9. Info (Basic information) Shows the basic information of this device. (Shows version information).

**2. BEFORE USE**

What is incubation room? This is the location where the incubator is installed and operated. As the environment affects the hatching rate the place of installation must be a place with low nearby noise or vibration, and nearby temperature must be 22~25℃ (71.6~77℉) with low temperature difference. Especially in night time the temperature is lowered than daytime therefore it surely must be verified, and in daytime the device must never be exposed directly under the sunlight. Also the place must not have direct ventilation as air conditioner to the device.

If the temperature of hatching room is lower than setup value there might be misted or dripping water inside due to dew condensation.
2. BEFORE USE

Preparation / Start of Incubation

▶ Please insert the nipple into the nipple groove as shown in the image.

▶ Cut the humidity pad in 2 pieces of 10 x 150mm size and fix them to the outer groove of each side of the view-window. Fix them in each side with the nipple as the center. This allows the water to easily infiltrate the pad.

▶ The maximum/minimum humidification capacity varies according to the size of the humidification pad.

⚠ The life of humidification pad is 4~6 months under normal usage conditions but if the water quality is improper the life might be reduced. (Please use distilled or purified water for moisturizing.)

⚠ The humidification pad can be purchased separately.
2. BEFORE USE

How to assemble APS (Automatic Pumping System)

- Please insert air filter into the lower groove of egg turning disk as shown in the picture. 3day before hatching.

⚠️ Please wash the air filter before use, as dust in the air filter during use may disrupt proper air circulation.

- Assemble in this order: view-window, egg rotation disk, main controller and fix the view window and main controller with 3 hooks. (In the PRO 10 model the nipple and APS are sold separately.)

When assembled, the grooves of air control lever and view-window should line up.

- It is recommended to sterilize both the eggs and the incubator interior before loading the eggs. (Reference Rcom Antiseptic Solution) Assemble the main body (lower part) and tray and place the eggs in, adjusting the location according to egg size.

⚠️ It is recommended to locate the sharper point of the egg to the inner side of the device.

- Place the eggs and close the view-window.

⚠️ If the view-window is not completely closed the temperature will not increase.

- Turn the device on before placing the eggs, thus verifying all the functions are performing normally, then start the incubation once verified.

- Insert the power cord and pump power* jack to the upper side of the product. (*Pump pack and/or Rcom PRO PLUS 10 model sold separately.)

⚠️ Please pay special attention and do not to switch the location of power cord and pump power jack.

In case of PRO PLUS 10 model

- Connect the OUT side silicone tube of the automatic pumping system (APS) to the nipple of the device, and put the silicone tube of IN side to the PET water bottle.

In case of PRO PLUS 10 model do not pour water to the water hole in the lower part of the main body as it includes automatic pumping system (APS).

⚠️ Never shake or reverse the main body of the device after filling the water. Any spilled or leaked water may cause device breakdown.

In case of PRO 10 model

- Pour the water into the water hole of the lower part of the main body. The silicone hose will supply water to the interior of the incubator. Pay special attention to prevent overflow. During incubation please verify daily if there is water in the water hole and when insufficient please supply water. (Reference 3. Incubation/Function setup → (1) Function setup)

In the PRO 10 model, the APS is sold separately. It can be purchased and installed as the PRO PLUS 10 model. When the APS is installed, do not pour water to the water hole in the lower part of the main body.
① Cut the silicone tube exactly in 35mm and insert each of them to the nipple as shown in [Image 1-2]. (The initial product is assembled as ⓐ-1.)

② Cut the 1.5m silicone tube in two as stated in [Image 1-1] and insert each of them to the assembled nipple (ⓐ).

③ Assemble as [Image 1-3] normal. If the silicone tube is not inserted onto the nipple correctly [Image 1-4] pumping performance is reduced.

④ Grab the side ⓒ of [Image 1-5] and pull the silicone tube and insert it to ⓓ. (The silicone tube must be firm but not too taut.)

⑤ Avoiding twisting the silicone tube, open the IN and OUT side, locate it in the hole and close the case. Verify if the silicone tube or cable is not stuck in the case and tighten up the 2 bolts. Reference [Image 1-6].

How to control APS speed
▶ Easily control the volume of water through the APS.

▶ Damage silicone tubing will reduce the pumping volume or pumping may cease. In this case, please replace the silicone tubing.

Product. (Ø2.6 x 3.5)

▶ If the pumping motor works but it does not produces water, or if there is louder noise than usual, the silicone tube may be aged, bent or blocked.

※ If the pump is not performing recheck the IN and OUT, verify if the motor rotates to the left (Image 1-5), and the silicone tube was cut exactly as 35mm and properly located as [Image 1-3].

How to replace APS tube
▶ Do not wash with water, please wipe with clean fabric material.

▶ The water pump can be dismantled. In case of reassembly due to blocked tube, please pull the blocked part of the silicone tube or open the interior of the tube.

⑥ Avoiding twisting the silicone tube, open the IN and OUT side, locate it in the hole and close the case. Verify if the silicone tube or cable is not stuck in the case and tighten up the 2 bolts. Reference [Image 1-6].

How to maintain and clean APS
▶ Avoiding twisting the silicone tube, open the IN and OUT side, locate it in the hole and close the case. Verify if the silicone tube or cable is not stuck in the case and tighten up the 2 bolts. Reference [Image 1-6].

3. INCUBATION / FUNCTION
SETUP

① Function setup

(1) Function setup

Rcom PRO 10
Rcom PRO PLUS 10

Auto Incubation

Serial Button 's and 'c'

Manual Incubation

Select birds

① Temperature setup
② Humidity setup
③ Egg rotation angle setup
④ Egg rotation cycle setup
⑤ Cooling control cycle setup
⑥ Setup of number of incubation days (D-Day)
⑦ Start Incubation

① When pressed Candling Sign (Button) during the Menu Setup the user may go back to the previous step.

Start of Automatic Incubation
▶ When connecting the power plug to socket the LCD display turns on and the device starts to work.
▶ It may smell a little in first operation however this is normal.
Starting Manual (Other birds) Incubation

- The Bird icon on the LCD display flickers and it switches to different types of bird by pressing + or - button. Select the type of bird to incubate.

- After choosing the type of bird to incubate, keep pressing the OK button approximately 2 seconds when the icon flickers, then the internal lighting of the incubator turns on with a Beep~ and the device starts the operation.

- Incubator conditions are automatically and optimally adjusted. Choosing the type of bird will set the proper incubation conditions as temperature, humidity and rotation are automatically controlled and the user may modify the incubation condition when necessary.

※ As the device controls the internal temperature checking the external environment due to artificial intelligence, therefore it may raise the temperature very slowly in some sections.

[Temperature setup]
- TEMP (temperature) is briefly shown and 37.5℃ sign flickers. Setup the desired temperature with + and - button and press OK to move to humidity setup phase. [Adjustment scope : 20 ~ 42℃ (68 ~ 107.6℉)] [Default value : 37.5℃ (99.5℉)]
- If Candling sign (button) was pressed during setup you can go back to previous step.

[Humidity setup]
- HUMI (humidity) sign is briefly shown and 45% sign flickers. Setup the humidity with + and - button and press OK to move to egg rotation angle setup phase. [Adjustment scope : RH 20 ~ 70%] [Default value : RH 45%]
- When the humidity is setup below RH 20% the OFF sign indicates humidification function is turned off.
- If Candling sign (button) was pressed during setup you can go back to previous step.

- The temperature and humidity are optimally adjusted according to international standards when launched from factory. When necessary it can be reset but it is not recommendable to be directly adjusted by the user. When reset is necessary please contact the place where you purchased the product.

- The low price thermometer and hygrometer easily procurable in markets can be inaccurate in measurement value and may need frequent calibration, therefore please use the exclusive thermo-hygrometer for birds. [Thermo-hygrometer exclusive for birds at www.RcomCo.com]

[Egg rotation angle setup]
- ANGL (Egg rotation angle) is briefly shown and 10s(seconds) sign flickers. Setup the desired egg rotation time with + and - button and press OK to move to egg rotation angle setup phase. [Adjustment scope : 0 ~ 60s(seconds) in 1 second as a unit, when setup as RND it shall be operated randomly] [Default value : 10s(seconds)]
- If Candling sign (button) was pressed during setup you can go back to previous step.

[Incubation cycle setup]
- INTV (Egg rotation cycle) is briefly shown and 60m(minutes) sign flickers. Setup the desired cycle with + and - button and press OK to move to cooling control cycle setup phase. [Adjustment scope : 10 ~ 360m(minutes) by scale of 10 minutes] [Default value : 60m(minutes)]
- The egg rotation is suspended 3 days before hatch.
- If Candling sign (button) was pressed during setup you can go back to previous step.

Starting Manual (Other birds) Incubation
What are Abnormal High/Low Temperature Alarm functions? It is an Alarm Function which notifies the user when the device's interior temperature is abnormally high or low.

- Pour water into water hole of the main body (lower part). The connected silicone hose will supply water to the interior.
- Verify daily if there is water in the water hole during incubation and supply when insufficient.
- When desiring to incubate on low humidity only fill the internal water chamber A connected to the water hole. [RH 45% or less]
  - Adjust humidity 3 days before hatch.
- When desiring to incubate with high humidity, please fill all the A and B water chambers with water. [RH 45% or over]
  - Adjust humidity 3 days before hatch.
- If Candling sign(button) was pressed during setup you can go back to previous step.
- How to setup continuous incubation function: In D-Day(number of hatching days) setup use the + button and increase until D-50Days and press + again and “-” sign is shown, and by pressing OK button it is set as continuous incubation function.
- It is a function which enables the continued operation of the device with the currently setup incubation conditions regardless of number of incubation days.

[How to manually Humidify and Supply Water in Rcom PRO 10]
- Press the “which button?” button for 3 seconds and the incubation is terminated and moves to initial step/status.
- When desiring to incubate on low humidity only fill the internal water chamber A connected to the water hole. (RH 45% or less)
  - If the humidity of hatching chamber is higher than setup value please open the air control lever.
- When desiring to incubate with high humidity, please fill all the A and B water chambers with water. (RH 45% or over)
  - Adjust humidity 3 days before hatch.
- If Candling sign(button) is pressed during setup you can go back to previous step.
- How to setup continuous incubation function: In D-Day(number of hatching days) setup use the + button and increase until D-50Days and press + again and “-” sign is shown, and by pressing OK button it is setup as continuous incubation function.

[COOL(cooling control) Function]
- It is a function which cools during the setup time among the 24 hours of a day. The periodic cooling is helpful for successful hatching but you might need preliminary knowledge to perform the cooling control process.

[Setup of number of incubation days (D-Day)]
- Setup the desired number of days with + and - button and press OK to set up to save setup value and initiate incubation.
  - Adjustment scope : 1 ~ 50 days
- How to setup continuous incubation function: In D-Day(number of hatching days) setup use the + button and increase until D-50Days and press + again and “-” sign is shown, and by pressing OK button it is setup as continuous incubation function.
- It is a function which enables the continued operation of the device with the currently setup incubation conditions regardless of number of incubation days.

[Termination of incubation]
- During incubation press the “which button?” button for 3 seconds and the incubation is terminated and moves to initial step/status.
- When modifying the temperature readjust the value with + and - buttons, press OK button and the setup value is saved and it moves to next step (temperature, humidity, egg rotation, egg rotation cycle, order of hatching days).
- If Candling sign(button) is pressed during setup you can go back to previous step. Also the display switches to incubation display if a button is not pressed during 10 seconds.

[High/Low temperature Alarm function]
- It is an alarm function which notifies the user when the device's interior temperature is abnormally high or low.
  - The alarm sounds in case of abnormal temperature and the display shows the current temperature and consequently whether it is high or low according to the setup value.
  - The alarm sounds for 1 minute and automatically stopped, and the alarm sign is consequently shown until the OK button is pressed.
  - In case of alarm for 2℃ HI it consequently shows the current temperature and +2.0 / In case of -3℃ LO alarm it consequently shows current temperature and -3.0.
  - It is a function which notifies when the device’s interior temperature is higher than setup value.

[How to setup Abnormal High Temperature Alarm]
- Setup scope : 0.0 ~ 5.0℃ (0 ~ 5℉), Default setup value : 2℃
By pressing + or - button 3.HI and press OK to go back to Abnormal High Temperature Alarm setup.

By selecting the alarm value with + or - button and pressing OK, the setup values are saved.

If pressed Candling sign(button) during setup you can go back to previous step.

How to switch between Celsius ↔ Fahrenheit degrees (optional function)

By pressing + or - button for 3 seconds at the same time the OPTN(option) sign appears.

By pressing + or - button select 5.C/F and press OK to go back to Celsius/Fahrenheit modification mode.

When pressed OK after selecting °C = Modified to Fahrenheit degree.
When pressed OK after selecting °F = Modified to Celsius degree.
[Default value : °C]

°C = \frac{5}{9}(°F - 32)

If pressed Candling sign(button) during setup you can go back to previous step.

Back light ON↔OFF↔EVENT ON method (optional function)

By pressing the + and OK buttons for 3 seconds at the same time the OPTN(option) sign appears.

By pressing + or - button select 6.BLt and press OK to go back to Back Light setup.

By selecting ON, OFF or EVENT ON with + or - button and pressing OK the setup values are saved. When setup as EVENT ON the back light is only turned on for 30 seconds when the button is pressed or the alarm is produced.
[Default value : ON]

How to ON↔OFF Interior Lighting (optional function)

By pressing the + and OK buttons for 3 seconds at the same time the OPTN(option) sign appears.

By pressing + or - button select 7.I.nL and press OK to go back to Interior Lighting setup.

By selecting the ON or OFF with + or - button and pressing OK, the setup values are saved.
[Default value : ON]

If pressed Candling sign(button) during setup you can go back to previous step.

How to ON↔OFF SOUND (optional function)

By pressing the + and OK buttons for 3 seconds at the same time the OPTN(option) sign appears.

By pressing + or - button select 8.Snd and press OK to go back to Sound setup.

By selecting the ON or OFF with + or - button and pressing OK, the setup values are saved.
[Default value : ON]

If pressed Candling sign(button) during setup you can go back to previous step.

Information display (optional function)

By pressing the + and OK buttons for 3 seconds at the same time the OPTN(option) sign appears.

Select the 9.Info by pressing + or - button and press OK to display basic information of the device.

How to leave Optional Function
PRO PLUS 10 : How to forcibly operate humidifying pump

- By pressing the + and OK buttons for 3 seconds at the same time the OPTN(option) sign appears.
- Press + or - button, select 0.ESC and press OK and you can exit from the optional function setup.

How to do Factory Initialization

- When the input values are incorrect, use factory default function to initialize the device to the initial status launched from the factory.
- When inserted the power by pressing the OK button at the same time, the RST sign is

Blackout Notification Function

- During the incubation the power sign in display flickers and sounds the alarm for 10 seconds. When pressed OK button it is suspended and the power sign is immediately disappears.

PRO PLUS 10 : How to forcibly operate humidifying pump

- The pump motor may be tested by pressing the + button for 5 seconds during operation.
- The pump motor may be tested for 2 mins by pressing the + button for 10 seconds during operation. In this moment the pump motor works even when the button is not pressed directly.
- If you press any button during the consecutive 2 minutes operation, the pump operation is immediately suspended.

Candling function

- Candling allows observation of the fertilized, unfertilized, suspended hatching or development of embryo, and if there is any minute fissure on the egg after introducing to the incubator the germs penetrate into it therefore the decompositions stems. As the decomposed egg may contaminate other eggs, it is recommendable to perform candling in dark environment to select the proper ones.
    - Do not directly look into the LED light except in case of candling (egg examination).
    - The environment for candling must be dark for easier observation.
    - Pull up carefully the main controller and the handle of main body (upper part) and take the egg to examine/candle.
    - Place the wide, round part of the egg onto the candling zone of the main body (upper part). press the Candling button and observe the interior of the egg (embryo or blood vessel).

The candling can be verified by naked eye from 5~7 days after initiation of incubation, and if the blood vessel or embryo (chick) is not observed the egg may be unfertilized therefore remove it from the incubator.
- If the egg shell is thick or dark it may be difficult to verify with naked eye.
- White eggs as duck eggs are easier to observe.

It is recommended to candle over 10 minutes within a warm indoor environment.
- Please pay special attention not to apply any impact on the egg.
- The egg may die due to stress caused by severe shaking or turning.
- Too frequent candling may cause failure to hatch.

3. INCUBATION / FUNCTION SETUP

Humidity and ventilation control during incubation

- Humidity must be maintained before hatching to prevent drying of egg shell or non hatch.
- It is not recommended to open the cover frequently in the hatching period.
- If the cover is frequently opened the humidity is rapidly reduced and it may take long time to recover the humidity again.
- If the internal temperature of the device is 37℃ (98.6℉) or over, and the temperature of hatching room is lower then humidity may not reach RH 65%. There might be ±5% of tolerance in humidity and there is no significant problem for hatching.

USA & Canada Official Sales & Service https://www.R-Com-Hatcher.com

USA & Canada Official Sales & Service https://www.R-Com-Hatcher.com

Egg Incubator and Hatcher Rcom Eco Pro Plus 10 User Manual
The humidity control is important in 1-2 days before hatching than in the beginning and in the middle of incubation, the moisture must be maintained from
1-2 days before hatching. In case of water bird the humidity during incubation must be RH 45~55% / in case of poultry RH 40~45% / parrots RH 35~45% generally and for every type of bird the humidity for a day before hatching must be RH 65% or over.

Air control lever (Air Vent) : It may induce the fresh exterior air minimizing the effects on the insulation.
- Please open all the air control levers (Air Vent) when the egg breaking begins.

Verify once every 3 days during the incubation if the water is low, then supply water, and it is recommended to use distilled or purified water than water from water purifier, softener or underground water to maintain performance.

The humidity pad is consumable and it can be purchased.

4. HOW TO CLEAN

How to disassemble and clean

Please separate the power cord from the socket.
- When immediately turned off the device in high humidity incubation and left with the cover closed, the humidity remaining inside the device may evaporate, adhere to the device and product breakdown. Please consider the Rcom Sure eco hatcher specifically for hatching. We recommend to use the KINGSURO Brooder of our company for brooding.

Do not brood the chick within the incubator. Have a radiant heat brooder for chicks that are dry and fluffy. As it can be the cause of breakdown and produce paid repair (A/S) cost even within warranty period. (Please move the chick to the brooding chamber after hatching)

Generating chamber: It is a space for hatching (egg breaking) used 1~3 days before hatching. (RCOM KINGSUR BROODER)
Developing (brooder) chamber: It is a space (device) which adapts the just born chick to the environment by maintaining proper temperature and humidity. (Rcom KINGSUR BROODER/Rcom BIRD BROODER&ICU)

As the feed for little birds may vary by type, it is recommendable to acquire prior understanding on the bird before hatching.
(Please use the information on birds in the Rcom web site.)

Dew Condensation

When operating the device, if the difference between exterior and interior temperature of the device is high, the dew condensation is naturally occurred therefore there is no operational problem due to this phenomena.

- There are 3 hooks connected with the main controller in the inner part of the view-window. Push the 3 hooks to the inner side and separate the main controller and the view-window.
- Eliminate carefully with brush the dust on the separated main controller. At this point, do not apply any strength on the sensor or heater.
- The humidity and temperature sensor units are connected with the connector to be easily replace in case of breakdown.
- Wipe the view-window, egg rotation disk, tray, air filter and the main body (lower part) down properly with lukewarm water.
- Do not was the Automatic Pumping System (APS) with water but wipe with clean fabric.
- Wipe the exterior with smooth fabric, dry in a fresh place with proper ventilation and assemble in order reverse to the disassembly and store properly.

Do not clean the product with organic solvents as benzene and thinner. It may deform or discolor the product.
5. PRODUCT INFORMATION

### FAQ

The Rcom products are manufactured under strict quality management with precise equipments, but there may be some defects in the product during the distribution. If there is any problem, please contact to the Service center or Distributor of RCOM. We will do our best to resolve the problem as soon as possible. The product is designed in module methods which is easily replaceable by any qualified person.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Estimated cause (possibility)</th>
<th>Solutions</th>
</tr>
</thead>
</table>
| If the average hatching rate is low | ▶ If the egg is unfertilized  
▶ Germ infection  
▶ Incorrect incubation setup  
▶ Health condition of the mother bird  
▶ Improper egg rotation  
▶ When the vibration or noise is severe near the device  
▶ When the air filter's cleaning condition is improper  
▶ Improper egg storage status, when passed over 1 week after spawning | ▶ Candle the egg to verify if it's alive  
▶ Sterilize the device  
▶ Check all the setup process of the device. Especially on the temperature  
▶ Care the mother bird's health  
▶ Verify if the egg rotation is normally performed  
▶ Move the device to a place without noise or vibration  
▶ Clean the air filter  
▶ Store the egg under low temperature of 20~25°C or less and use eggs within 1 week after spawning |
| If the chick is born earlier than the estimated date or when is malformed | ▶ If the setup temperature is too high.  
▶ If the egg rotation is not performed.  
▶ In case of unhealthy hatchery egg | ▶ Slightly decrease the temperature of the device. [37.5°C to 37°C]  
▶ Initiate egg rotation test verifying if the egg rotation function is not OFF |
| If the chick is born later than the estimated date | ▶ If the setup temperature is too low.  
▶ If the chick is born earlier than the estimated date or when is malformed | ▶ Slightly increase the temperature of the device. [37°C (1°F)]  
▶ When possible, minimize the egg storage period/time.  
▶ Check the temperature difference within the device. (sunlight and temperature of hatching room, etc) |
| If the hatching date of the eggs are too varied (when they’re not hatched at the same time but differently during long term) | ▶ Difference of hatchery egg storage time  
▶ Occurred from the diversity of hatching temperature. | ▶ Work the hatching date on the egg and move to other device (generator) according to the estimated hatching date.  
▶ It is convenient if you have other additional devices which can be used as generator chamber when different eggs are placed together at the same time |

#### Troubleshooting and measures

For more detailed self-troubleshooting, verify the “Troubleshooting” category in the Rcom web site.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Estimated cause (possibility)</th>
<th>Measures</th>
</tr>
</thead>
</table>
| If the power is not on | ▶ Verify if the power cord is correctly inserted.  
▶ Verify if there is no power failure/blackout.  
▶ Verify if the plug is faulty or not.  
▶ Verify if the power cord and pump power cord locations are | ▶ Insert correctly the power cord again.  
▶ Verify other nearby electronic and electric devices.  
▶ Verify and try other power socket.  
▶ Insert after verifying the correct location. |
| If the temperature is too high / low | ▶ Verify the setup temperature.  
▶ Verify if the air circulation FAN does not rotate. | ▶ Adjust the temperature setup to desired temperature.  
▶ Disconnect the power plug from the socket, separate the main body and brush/clean the air circulation FAN. |
| If the humidity is too high / low | ▶ Verify if there is enough water.  
▶ Verify the setup humidity.  
▶ If it’s too high>  
▶ Verify if the moisturizing pad is correctly installed.  
▶ (In case of PRO PLUS, PRO models when applied APS option.)  
▶ Verify if the silicone tube of APS is not blocked.  
▶ (In case of PRO PLUS, PRO models when applied APS option.)  
▶ Verify if the water is insufficient or not.  
▶ (PRO model)  
▶ Verify if the view-window is correctly closed.  
▶ If it’s too high>  
▶ Verify the nearby environment. | ▶ Supply enough water.  
▶ Adjust the desired humidity in setup.  
▶ Try the factory initialization.  
▶ If it’s too low>  
▶ If the moisturizing pad is not installed the moisturizer does not work properly. (In case of PRO PLUS, PRO models when applied APS option.)  
▶ Rub the confined part of the silicone tube to pass the water.  
▶ Supply water. (PRO models)  
▶ Verify if there is any alien substance and close again.  
▶ If it’s too high>  
▶ Adjust the environment of the incubator.  
▶ Eliminate the water inside the tray. |
| It produces noise. * There is certain level of noise due to the fan for air circulation within the device. | ▶ Verify if there is any object on the device.  
▶ Verify if there is any vibration on the floor or the device was installed on a table.  
▶ Verify if there is any alien substance around the FAN after | ▶ Remove all the objects from the top of the device.  
▶ Install the device in other stable place.  
▶ Disconnect the power plug from the socket, separate the main body and brush/clean the FAN for air circulation. |
| When dews are formed within the device * When maintained in high humidity there may be formed dews. | ▶ Verify if the surrounding temperature of the installed place is too low. | ▶ Please install in a place within the conditions of an incubator. |
### 5. PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details on compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated voltage</strong></td>
<td>DC 12[V] 3[A]</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Max 36[W] Average 21[W]</td>
</tr>
<tr>
<td><strong>Temperature adjustment scope</strong></td>
<td>20 ~ 42 [℃] / 68 ~ 107.6 [℉]</td>
</tr>
<tr>
<td><strong>Humidity adjustment scope</strong></td>
<td>20 ~ 70 [%] (May vary according to surrounding environment)</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>In case of egg 10[units], in case of quail egg 30[units]</td>
</tr>
<tr>
<td><strong>Weight of product</strong></td>
<td>N.W. 1.5[kg], G.W 2.5[kg]</td>
</tr>
<tr>
<td><strong>Size of product</strong></td>
<td>259 x 236.5 x 172 [mm]</td>
</tr>
</tbody>
</table>

### Guide on Customers’ Damage Compensation

<table>
<thead>
<tr>
<th>Types of damages of customers</th>
<th>Details on compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>In case of naturally occurred failure in function or performance in normal condition of use.</td>
<td>Free repair</td>
</tr>
<tr>
<td>Failure in function or performance due to intention or error of the customer.</td>
<td>Paid repair</td>
</tr>
<tr>
<td>In case of failure due to natural disaster (fire, sea disaster, gas, earthquake, storm and flood)</td>
<td></td>
</tr>
<tr>
<td>When replacing expendable part normally abraded during the use.</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to abnormal power source or faulty connection device.</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to repair or remodelling by person any other than the service engineer of headquarters or the service center.</td>
<td></td>
</tr>
<tr>
<td>External factors which are not defect of the product.</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to use of different rating voltage.</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to use of consumable, optional product not designated by the company.</td>
<td></td>
</tr>
<tr>
<td>Breakdown or loss due to drop during the transportation.</td>
<td></td>
</tr>
<tr>
<td>Breakdown for not cleaning the product / Breakdown due to use of other liquid than distilled or purified water / Breakdown due to incorrect device control / Breakdown due to manner of use not mentioned in the instruction manual / If the customers’ fault is clear</td>
<td>Paid repair</td>
</tr>
</tbody>
</table>

### North America Sales & Service

**www.RcomCo.com**

Rcom will never renounce our philosophy regarding design, class, price, value, and technology focus.
1. COMPOSITION

(1) Safety precautions / (2) Introduction on Rcom 10 / (3) Name of each part and basic composition / (4) Name and function of operational parts.

2. BEFORE USE

(1) What is incubation room? / (2) Preparation of incubation / Start incubation.

3. INCUBATION / FUNCTION SETUP

(1) Function setup / (2) Moist and ventilation during incubation / (3) Management after incubation / Dew condensation.

4. HOW TO CLEAN

(1) How to disassemble and clean.

5. PRODUCT INFORMATION

(1) FAQ / (2) Trouble shooting and measures / (3) Product data / Product warranty / (4) Guide on customers’ damage compensation.

The success of incubation may vary according to different factors. The manufacturer and distributor are not responsible for failure of incubation of costly eggs, loss of life, property damage due to negligence of user, remodeling, painting, modification of purpose of use or power failure. When incubating parrot or costly birds please verify the internal temperature (adjust) before use. Please read carefully the instruction manual before use to avoid failures.

Explanation on Signs

ATTENTION: Means the errors which may produce failure of incubation, trouble or damage that require attention.

Means Forbidden.

Means Do not disassemble.

Means Do not contact.

Means Do not overturn the product.

Means Forbidden. Means the earthing to prevent electric shock.

Means the helpful information or reference for using the product.

Means the possibility of injury or material loss of equipment when the designated instruction is not observed.

1. COMPOSITION

(1) Safety precautions

Power-related precautions

Please pay attention on following terms when using the product.

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Precautions on installation and use

Please pay attention on following terms when using the product.

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1. COMPOSITION

**Rcom 10**

First of all thanks to every customer who purchased our Rcom 10.
The Rcom 10 automatically creates and maintains an optimal incubation environment using state-of-the-art technology digital control methods and has been designed for easy and simple use. The Rcom 10 provides the optimal environment, however the user needs to carefully observe and adjust environmental factors such as temperature, humidity, installation location and other conditions necessary for the incubation of different kind of birds. Even though the Rcom 10 is designed to provide the optimal setting for every kind of environment necessary for the incubation of eggs, we sincerely suggest you carefully read the instructions before use to allow for the successful incubation and proper use of the device.

**Dominant advantages of Rcom 10**

**MAIN FUNCTIONS**
- Special mechanism without egg rotation noise. (PRO, ECO+)
- Streamlined high quality design in the shape of an egg. (PRO, ECO+)
- Clean and transparent large view-window. (PRO, ECO+)
- One-touch separation of electronic controller assembly allows convenient cleaning. (PRO, ECO+)
- Design incorporates principles to reduce germ reproduction such as minimizing interior mechanisms which reduced the opportunity for bacterial propagation. (PRO, ECO+)
- Variable air control lever which enables the interior air volume of the device, to be altered. (PRO, ECO+)
- Artificial intelligence based electronics with the state-of-the-art controlling technology designed by Rcom. (PRO, ECO+)
- Capacity of simultaneous hatching of 10~15 standard size eggs. (PRO, ECO+)
- Rotational Heater Support which enables the easy adjustment of heater tension. (PRO, ECO+)
- Air control lever which induces the fresh exterior air minimizing the effects on the insulation. (PRO, ECO+)
- Integrated candling facility. (PRO, ECO+)
- Automatic egg rotating function (rotating disk method) with adjustable egg rotation timing.(i.e 1h, 2h, 3h) (PRO, ECO+)
- Ability to adjust the egg rotation angle. (PRO, ECO+)
- Improved reliability based on the application of 3rd Generation Temperature-Humidity Sensor of Sensirion Co. Ltd. (Switzerland) (PRO, ECO+)
- Convenient humidification device based on the Automatic Pumping System(A.P.S) for humidification (PRO, ECO+)
- Automatic temperature, humidity adjustment and setup functions.(PRO, ECO+)
- Automatic temperature adjustment and setup functions. (PRO, ECO+)
- Manual temperature, humidity adjustment and setup functions. (ECO+)

**CONVENIENT FUNCTIONS**
- Clamped structure which prevents the leakage of water drops inside the view-window (dew condensation) out of the device. (PRO, ECO+)
- One touch separation of upper part (main controller) for convenient cleaning after incubation and reparation. (PRO, ECO+)
- External water input hole and moisturizing device for easy supply of water for moisturizing. (PRO, ECO+)
- Egg Tray which can simultaneously store different types of eggs. (PRO, ECO+)
- Incorporated LED internal lighting. (PRO, ECO+)
- Large LCD display which enables the easy view of the diverse information on the device. (PRO, ECO+)
- Function of switching Celsius and Fahrenheit degrees. (PRO, ECO+)
- Alarm and sign which notices the abnormal temperature (high and low) for sudden change of external temperature. (PRO, ECO+)
- Applied Water Nipple for easy supply of water for moisturizing. (PRO, ECO+)
- Convenient method of manual egg rotating function. (ECO+)
- The ECO model is for manual egg rotation method. By installing the additional automatic egg rotating unit (sold separately) the eggs are automatically rotated once every hour.
- The PRO model does not include the APS. By installing the additional APS (sold separately) it can be used as PRO PLUS model.

1. COMPOSITION

**Name of each part**

<table>
<thead>
<tr>
<th>Name of each part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMPOSITION</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ECO</strong></td>
<td></td>
</tr>
<tr>
<td><strong>PRO</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ECO+</strong></td>
<td></td>
</tr>
<tr>
<td><strong>PRO+</strong></td>
<td></td>
</tr>
</tbody>
</table>
1. COMPOSITION

Name and function of operational parts

① Heater operation lamp : When heating is on, the lamp glows on. ② Temperature adjustment dial : use this to adjust set temperature.

2. BEFORE USE

① What is incubation room?
② What is Hatching room?
What is a hatching room? This is the location where the incubator is installed and operated. As the environment affects the hatching rate, the place of installation must be a place with low nearby noise or vibration, and nearby temperature must be 22~25°C (71.6~77℉) with low temperature difference. Especially in night time the temperature is lowered than daytime therefore it surely must be verified, and in daytime the device must never be exposed directly under the sunlight. Also the place must not have direct ventilation as air conditioner to the device.

⚠️ If the temperature of hatching room is lower than setup value there might be misted or dripping water inside due to dew condensation.

### 2. BEFORE USE

**Preparation / Start of Incubation**

- Separate the parts for assembly and verify all parts are present and not damaged. Please do not discard the product box and use it to safely store the product furthermore. (Turning disk, egg tray and air filter are optional for ECO 10.)

- Register the Serial No. of the left side of the main controller’s handle. The free guarantee term will be extended to 2 years. Reference the details in the Rcom home page.

- Fix the thermometer to the inner side of view-window as shown in the image. Use the thermometer holder and screwdriver to affix the thermometer.

  ⚠️ Carefully install thermometer as force or impact will cause damage. Check thermometer spirit is intact. Install according to the directions shown in the image.

- When the spirit thermometer from ECO has an inaccurate reading (separations look like blue dots) caused by transit, please dip the thermometer in very warm water. When the thermometer spirit reaches maximum, please take the thermometer out of the warm water. Please check the spirit has joined together. The dipping method may need to be repeated to remove separations in spirit.

**[In case of ECO PLUS 10 model]**

- There are 3 hooks connected to the main controller in the inner side of the view-window. Squeeze the 3 hooks in and separate the main controller and the view-window.

- The view-windows and turning disk to be fixed by utilizing the two bolts.

- Please insert air filer into the lower groove of egg turning disk as shown in the picture 3 day before hatching. (Turning disk, egg tray and air filter are optional for ECO 10.)

  ⚠️ Please wash the air filter before use, as dust in the air filter during use may disrupt proper air circulation.

- Please assemble in reverse order of disassembly.

- Insert the adaptor to the proper located in the upper part of the product.

  ⚠️ Please pay special attention not to insert into the temperature adjustment volume plug.

- Attain correct temperature before placing eggs into incubator. If you want to adjust to specific temperature, use the provided + shape driver to turn the temperature adjustment volume and so adjust the temperature.
3. INCUBATION / FUNCTION SETUP

ECO PLUS 10 : How to rotate egg

- The egg rotation cycle may vary by types of birds but 1 hour is recommended and the eggs must be rotated at maximum 3 hours cycle.

- After holding top body with your hands, slowly turn bottom body with your hands after holding water whole. Please check graduations marked on bottom body for turning angle.

- It is not recommended to rotate the egg from 3 days before hatching.

- The ECO PLUS 10 model can apply particularly purchased APS unit for automatic rotation.

- When installed the particularly purchased rotation unit, if the user wants to suspend rotation, the user needs to remove the egg rotation disk or tray.

Please pay special attention not to open the cover during egg rotation and not to drop the eggs.

ECO 10 : How to rotate egg

- The egg rotation cycle may vary by types of birds but 1 hour is recommended and the eggs must be rotated at maximum 3 hours cycle.

- Slowly rotate each egg (with hand) as shown in the image.

- It is not recommended to rotate the egg from 3 days before hatching.

- The ECO model can apply particularly purchased APS unit for automatic rotation.

- When installed the particularly purchased rotation unit, if the user wants to suspend rotation, the user needs to remove the egg rotation disk or tray.

How to manually moisturize & supply water

- Connect the power cord to the power socket.

- Adjust the location according to the size of the egg and close the view-window.

- Locate the sharp or pointy end of the egg to the inner side.

- If the temperature does not increase, check that the view-window is completely closed.

- Pour the water to the water hole in lower part of the main body. The silicone hose supplies water to the interior of the device. Please fill but do not overflow. During incubation verify the water is empty before refilling.

- It takes a little time until the water reaches the internal part of the device. Please wait before continuing to pour.

- Never shake, move or reverse the main body of the device after filling the water. The leaked water may cause damage and invalidate warranty.

- Connect the power cord to the power socket.

- Adjust the location according to the size of the egg and close the view-window.

- Locate the sharp or pointy end of the egg to the inner side.

- If the temperature does not increase, check that the view-window is completely closed.

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- Connect the power cord to the power socket.

- Adjust the location according to the size of the egg and close the view-window.

- Locate the sharp or pointy end of the egg to the inner side.

- If the temperature does not increase, check that the view-window is completely closed.

- Pour the water to the water hole in lower part of the main body. The silicone hose supplies water to the interior of the device. Please fill but do not overflow. During incubation verify the water is empty before refilling.

- It takes a little time until the water reaches the internal part of the device. Please wait before continuing to pour.

- Never shake, move or reverse the main body of the device after filling the water. The leaked water may cause damage and invalidate warranty.

- Connect the power cord to the power socket.

- Adjust the location according to the size of the egg and close the view-window.

- Locate the sharp or pointy end of the egg to the inner side.

- If the temperature does not increase, check that the view-window is completely closed.

- Pour the water to the water hole in lower part of the main body. The silicone hose supplies water to the interior of the device. Please fill but do not overflow. During incubation verify the water is empty before refilling.

- It takes a little time until the water reaches the internal part of the device. Please wait before continuing to pour.

- Never shake, move or reverse the main body of the device after filling the water. The leaked water may cause damage and invalidate warranty.

- Connect the power cord to the power socket.

- Adjust the location according to the size of the egg and close the view-window.

- Locate the sharp or pointy end of the egg to the inner side.

- If the temperature does not increase, check that the view-window is completely closed.

- Pour the water to the water hole in lower part of the main body. The silicone hose supplies water to the interior of the device. Please fill but do not overflow. During incubation verify the water is empty before refilling.

- It takes a little time until the water reaches the internal part of the device. Please wait before continuing to pour.

- Never shake, move or reverse the main body of the device after filling the water. The leaked water may cause damage and invalidate warranty.

- Connect the power cord to the power socket.

- Adjust the location according to the size of the egg and close the view-window.

- Locate the sharp or pointy end of the egg to the inner side.

- If the temperature does not increase, check that the view-window is completely closed.

- Pour the water to the water hole in lower part of the main body. The silicone hose supplies water to the interior of the device. Please fill but do not overflow. During incubation verify the water is empty before refilling.

- It takes a little time until the water reaches the internal part of the device. Please wait before continuing to pour.

- Never shake, move or reverse the main body of the device after filling the water. The leaked water may cause damage and invalidate warranty.
▶ Do not overfill the water hole of the main body (lower part). The connected silicone hose will supply water to the interior.

▶ Verify daily if there is water in the water hole during incubation and supply when low.

▶ When desiring to incubate with low humidity only fill the internal water chamber A connected to the water hole. [RH 45% or less]

▶ When desiring to incubate with high humidity, please fill all the A and B water chambers with water. [RH 45% or over]

Adjust as high humidity from 3 days before hatch.

If the humidity of hatching chamber is high please close the air control lever. (Reference the humidity and ventilation control during incubation)

❗️ As the automatic humidity adjustment is unavailable in ECO model, the humidity may not

#### How to setup temperature

▶ When adjusting to desired temperature, use the screwdriver included in the product by turning the temperature adjustment volume to control the internal temperature. [Recommended incubation temperature: 37.5℃ (99.5℉)]

⚠️ Using a non designated screwdriver may forcibly turn the temperature adjustment volume which may damage adjustment feature. Warranty is invalid.

⚠️ The temperature adjustment is sensitive, please turn it slightly. (Please read the scale of the thermometer 10 minutes after one adjustment.)

⚠️ Do not put eggs into incubator, until temperature is stabilized for 1~2 hours and then perform the temperature adjustment by increasing slightly from low temperature.

#### Termination of hatching

▶ There is no power switch in this device.
The device is turned OFF when power disconnected after hatching all the eggs.

### 3. INCUBATION / FUNCTION SETUP

#### Humidity and ventilation control during incubation

▶ Humidity must be maintained before hatching to prevent drying of egg shell or non hatch.

▶ It is not recommended to open the cover frequently in the hatching period. If the cover is frequently opened the humidity is rapidly reduced and it may take long time to recover the humidity again.

⚠️ If the internal temperature of the device is 37℃ (98.6℉) or over, and the temperature of hatching room is lower then humidity may not reach RH 65%. There might be ±5% of tolerance in humidity and there is no significant problem for hatching.

▶ The humidity control is important in 1-2 days before hatching than in the beginning and in the middle of incubation, the moisture must be maintained from 1-2 days before hatching. In case of water bird the humidity during incubation must be RH 45~55% / in case of poultry RH 40~45% / parrots RH 35~45% generally and for every type of bird the humidity for a day before hatching must be RH 65% or over.

⚠️ Air control lever (Air Vent) : It may induce the fresh exterior air minimizing the effects on the insulation. Please open all the air control levers (Air Vent) when the egg breaking begins.

⚠️ Verify once every 3 days during the incubation if the water is low, then supply water, and it is recommended to use distilled or purified water than water from water purifier, softener or underground water to maintain performance.

⚠️ The humidity pad is consumable and it can be purchased.

#### Management after hatching

▶ Hatching within the incubator can cause a build up of germs with possible cross contamination of bacteria, and the dust, feather dander, egg shells and excrement may produce a breakdown of the incubator which is not covered under warranty. Please consider the Rcom Suro eco hatcher specifically for hatching. We recommend to use the KINGSURO Brooder of our company.
4. HOW TO CLEAN

How to separate and clean

Please separate the power cord from the socket.

- When immediately turned off the device in high humidity incubation and left with the cover closed, the humidity remaining inside the device may evaporate, adhere to the device and produce breakdown. Always open the view-window and eliminate the inner humidity to use the device in the most safe manner.

- Thoroughly clean and dry before storage.

- Use the screwdriver and separate the thermometer from the thermometer holder.

- There are 3 hooks connected with the main controller in the inner part of the view-window. Push the 3 hooks to the inner side and separate the main controller and the view-window.

- Carefully remove the ultrasound separator main controller with a brush. At this point, do not apply any force on the sensor or heater.

- The humidity and temperature sensor units are connected with the connector are easily replace in case of breakdown.

- Wipe the view-window, egg rotation disk, tray, air filter and the main body (lower part) down properly with lukewarm water. (Turning disk, egg tray and air filter are optional for ECO 10.)

- Polish the exterior with smooth fabric, dry in a fresh place with proper ventilation and assemble in order reverse to the disassembly and store properly.

- Do not clean the product with organic solvents as benzene and thinner. It may deform or discolor the product.

5. PRODUCT INFORMATION

FAQ

The Rcom products are manufactured under strict quality management with precise equipments, but there may be some defects in the product during the distribution. If there is any problem please contact to the Service center or Distributor of RCOM. We will do our best to resolve the problem as soon as possible. The product is designed in module methods which is easily replaceable by any qualified person.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Estimated cause (possibility)</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>If the average hatching rate is low</td>
<td>- If the egg is unfertilized</td>
<td>- Candle the egg to verify if it’s alive</td>
</tr>
<tr>
<td></td>
<td>- Germ infection</td>
<td>- Sterilize the device</td>
</tr>
<tr>
<td></td>
<td>- Incorrect incubation setup</td>
<td>- Check all the setup process of the device. Especially on the temperature.</td>
</tr>
<tr>
<td></td>
<td>- Health condition of the mother bird</td>
<td>- Care the mother bird's health.</td>
</tr>
<tr>
<td></td>
<td>- Improper egg rotation</td>
<td>- Verify if the egg rotation is normally performed.</td>
</tr>
<tr>
<td></td>
<td>- When the vibration or noise is severe near the device</td>
<td>- Move the device to a place without noise or vibration.</td>
</tr>
<tr>
<td></td>
<td>- When the air filter’s cleaning condition is improper</td>
<td>- Clean the air filter.</td>
</tr>
<tr>
<td></td>
<td>- Improper egg storage status, when passed over 1 week after spawning</td>
<td>- Store the egg under low temperature of 20~25°C or less and use eggs within 1 week after spawning.</td>
</tr>
</tbody>
</table>
If the chick is born earlier than the estimated date or when is malformed
  ▶ If the setup temperature is too high.
  ▶ If the egg rotation is not performed.
  ▶ In case of unhealthy hatchery egg.
  ▶ Slightly decrease the temperature of the device. [0.5°C (1°F)] Ex) 37.5°C → 37.0°C
  ▶ Initiate egg rotation test verifying if the egg rotation function is not OFF.

If the chick is born later than the estimated date
  ▶ Slightly increase the temperature of the device. [0.5°C (1°F)] Ex) 37.0°C → 37.5°C

If the eggs are too varied when they’re not hatched at the same time but differently during long term
  ▶ Difference of hatchery egg storage time.
  ▶ Occurred from the diversity of hatching temperature.
  ▶ When possible, minimize the egg storage period/time.
  ▶ Check the temperature difference within the device. (sunlight and temperature of hatching room, etc)

When desiring to hatch different types of eggs at the same time
  ▶ The hatching rate is lowered as the days to hatch are different
  ▶ Mark the hatching date on the egg and move to other device (generator).
  ▶ It is convenient if you have other additional devices which can be used as generator chamber when different eggs are placed together at the same time.

Troubleshooting and measures

For detailed self-troubleshooting, verify the “Troubleshooting” category in the Rcom web site.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Estimated cause (possibility)</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>If the power is not on</td>
<td>Verify if the power cord is correctly inserted.</td>
<td>Insert correctly the power cord again.</td>
</tr>
<tr>
<td>If the temperature is too high / low</td>
<td>Verify the setup temperature.</td>
<td>Supply enough water.</td>
</tr>
<tr>
<td>If the humidity is too high / low</td>
<td>Verify if there is enough water.</td>
<td>Adjust the desired humidity in setup.</td>
</tr>
<tr>
<td>It produces noise.</td>
<td>Verify if there is any object on the device.</td>
<td>Remove all the objects from the top of the device.</td>
</tr>
<tr>
<td>When dews are formed within the device <em>There is certain level of noise due to the fan for air circulation within the device.</em></td>
<td>Verify if there is any alien substance around the FAN after</td>
<td>Please install in a place within the conditions of an incubator.</td>
</tr>
</tbody>
</table>

Please verify if every function of the device is performed properly by operating sufficiently the device before locating the eggs.

In case of incubation of costly eggs you might need check-up or adjustment of internal temperature to prevent failure of incubation. In the checkup or examination please use a high-reliability thermo-hygrometer. (RCOM Digilog3 model or higher)

5. PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>DC 12V/1.5A</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Max. 365W Average 21W</td>
</tr>
<tr>
<td>Temperature adjustment scope</td>
<td>33 ~ 39 [°C] / 91.4 ~ 102.2 [°F] (May vary according to surrounding environment)</td>
</tr>
<tr>
<td>Capacity</td>
<td>In case of egg 10 ~ 15[units], in case of quail egg 30 ~ 48[units]</td>
</tr>
<tr>
<td>Weight of product</td>
<td>N.W. 1.3[kg], G.W 2.3[kg]</td>
</tr>
<tr>
<td>Size of product</td>
<td>(w)259 x (L)236.5 x (H) 172 [mm]</td>
</tr>
</tbody>
</table>

USA & Canada Official Sales & Service https://www.R-Com-Hatcher.com
USA & Canada Official Sales & Service https://www.R-Com-Hatcher.com
### Guide on Customers' Damage Compensation

<table>
<thead>
<tr>
<th>Types of damages of customers</th>
<th>Details on compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>● In case of naturally occurred failure in function or performance in normal condition of use.</td>
<td>Free repair</td>
</tr>
<tr>
<td>● Failure in function or performance due to intention or error of the customer.</td>
<td>Paid repair</td>
</tr>
<tr>
<td>● In case of failure due to natural disaster (fire, sea wind, gas, earthquake, storm and flood).</td>
<td></td>
</tr>
<tr>
<td>● When replacing expendable part normally abraded during the use.</td>
<td></td>
</tr>
<tr>
<td>● Breakdown due to abnormal power source or faulty connection device.</td>
<td></td>
</tr>
<tr>
<td>● Breakdown due to repair or remodelling by person any other than the service engineer of</td>
<td></td>
</tr>
<tr>
<td>headquarters or the service center.</td>
<td></td>
</tr>
<tr>
<td>● External factors which are not defect of the product.</td>
<td></td>
</tr>
<tr>
<td>● Breakdown due to use of different rating voltage.</td>
<td></td>
</tr>
<tr>
<td>● Breakdown due to use of consumable, optional product not designated by the company.</td>
<td>Free repair</td>
</tr>
<tr>
<td>● Breakdown or loss due to drop during the transportation.</td>
<td></td>
</tr>
<tr>
<td>● Breakdown for not cleaning the product /</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to use of other liquid than distilled or purified water /</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to use of the incubator as brooder device (developer) /</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to incorrect device control /</td>
<td></td>
</tr>
<tr>
<td>Breakdown due to manner of use not mentioned in the instruction manual /</td>
<td></td>
</tr>
<tr>
<td>If the customers' fault is clear.</td>
<td></td>
</tr>
</tbody>
</table>

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**North America Sales & Service**

https://www.R-com-hatcher.com

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Egg Incubator and Hatcher Rcom Eco Pro Plus 10 User Manual