Love of life begins with "Rcom"

World's Best Selling Incubator

# KINESUROZO

**REV. 3.**4

# DIGITAL EGG INCUBATOR USER'S MANUAL

# **KINGSURO MAX 20**





To improve the performance of the product, specifications are subject to change without prior notice.

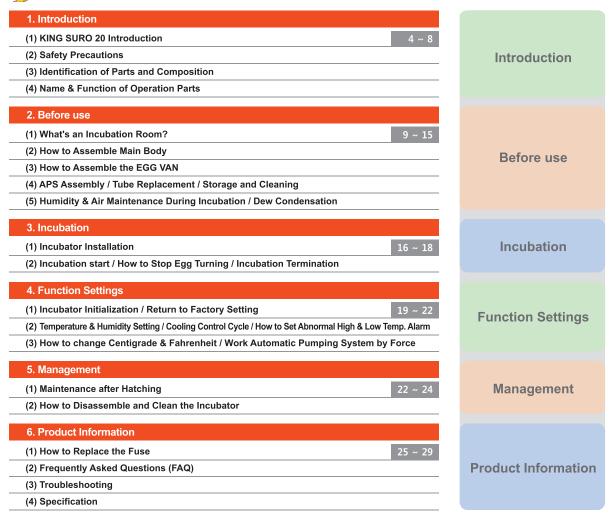




#### **Contents**

# (3)

#### **How to Use Rcom KING SURO MAX 20**



 $\triangle$ 

Successful hatching depends on many numbers of factors. Neither Autoelex (Rcom) nor its global distributors and vendors can be held responsible for loss of life or property damage caused by user neglect, alteration, modification or painting, change of use or power failure. To avoid errors, mishaps and danger, carefully check this User Manual before initial use. Also please check the manual regularly to ensure your operation of the machine is correct.





#### **Rcom King Suro 20**

Thanks for using Rcom King SURO 20 incubator.

SURO is the name of an ancient King in GimHae area who has born from an egg, and he is revived. The Rcom Suro incubator is based on experienced incubation technique and best quality management. The King SURO incubator is designed on easy and simple use as a customer oriented product, however the user's incubation knowledge and proper operation is very important for the best incubation result.

Therefore, be sure to read this user manual carefully before use. Rcom King SURO offers optimum incubation conditions, but users need to observe and manage all incubation conditions such as species of eggs, temperature or humidity for each incubation period, and incubation circumstance. Also, adjustment by users is available.

#### **Features of King SURO 20**

#### [Main Features]

- \* Luxury design with streamlined egg shaped concept
- \* Automatic Temp. setting and control
- \* Automatic Humidity setting and control
- \* Artificial intelligence electronic control device to automatically adjust the cycle of incubator according to the ambient conditions
- \* Automatic egg turning function with Auto Egg Van (Cradle)
- \* Convenient humidifier with Automatic Pumping System (APS)
- \* Clear and transparent large view-window
- \* Minimizing the parasitic bacteria by not using any interior material and using revolutionary hygienicduplicated insulation structure (bottom-egg tray)
- \* Variable air control lever to control air amount inside the incubator
- \* Applying Rcom's optimum air flow technology to avoid the fan's air from directly touching egg
- \* 24 egg capacity in the case of chicken egg size
- \* Enhanced reliability by applicating Swiss's Sensirion's 3rd generation temperature & humidity sensor

#### [Easy Features]

- \* Degree C / degree F interchangeable
- \* Alarm and indicator function for abnormal high or low temperature by drastic and unusual outer temperature change
- \* Incubation data memory function and power outage notification function in case of power outage
- \* Closed structure to avoid waterdrops (condensation) on the view window from leaking out of incubator
- \* Rotating heater support which conveniently controls the tension of the heater
- \* Application of Water Nipple to supply water easily for humidification
- \* Automatic humidification function for minimum 2 minutes (Press + button for 10 sec.)
- \* 4 Air Vent Holes for inflow of fresh air from outside to inside by affecting the heat insulation to the minimum
- \* Not required to have a balance weight with the optimized incubator design considering the centroid of incubator's top and bottom when eggs are placed
- \* Different kinds of egg can be placed on egg tray, and Egg divider made of ABS material, which has perfect elasticity
- \* The bottom of the egg tray is made with embossed skid-resistance floor to prevent young birds from deformity in their leg
- \* The Automatic Pumping System (APS) for accurate humidification, as a pump of silicone tube, is structured to make tube changed with easy and durable by installing mini roller on the four areas with friction

#### Electrical hazards

**ACAUTION** Be careful the details below when you use.



Do not use a damaged power cord or loose outlet

Risk of electric shock or fire.



Do not pull the cord when keep wet hands away from connecting plug.

► Risk of electric shock or fire



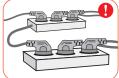
Do not pull the cord when Never pull the plug out of the taking out the power cord, and outlet during the incubation period.

Incubation will be interrupted



Do not twist or crush electric cord

Risk of electric shock or fire.



Do not insert multiple connecting plugs in an outlet.

Risk of fire or electrical

#### **Setting Cautions**

**ACAUTION** Be careful the details below when you use.



Do not install in dusty or dirty environment

▶ Risk of damage or fire within the incubator



Do not install under the direct sunlight.

▶ Risk of fire or interference with the incubation process



Do not install in moist or humid environment.

Risk of fire or electric shock



Do not install in excessively cold or hot conditions cigarette smoke, etc.

Risk of interference with the incubation process.



Do not use any other non-standard parts except those provided.

Risk of damage or hatching failure.



Do not cover the ventilating opening.

Inner temperature can rise. interrupting incubation



Install away from heat sources.

▶ Risk of damage to the incubator case and interference with the incubation process.



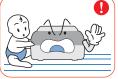
Ensure that the incubator is installed on a stable surface away from edges.

 Risk of damage to incubator and eggs and user from accidental knocks or drops



Do not turn the incubator upside down.

Water wil pour out of the incubator, and view window can be dropped or damaged.



Children should be supervised to ensure that they do not play with the appliance.

Risk of knocking the incubator or accidental interference with the controls.



Do not disassemble or modify the incubator in any way.

Risk if electric shock or fire



Please ensure that no small objects get into the holes on the incubator.



If the incubator sounds strange or emits smoke contact your service center.



Clean the incubator thoroughly before storing.



If the incubator requires repair disconnect from the power supply and please contact to vour service center.

#### Cleaning Cautions

## ACAUTION

#### Be sure to disconnect the electric cord from the outlet before cleaning.



on the incubator surface.



cloth with a neutral detergent.



Brush away dust on the plug with a dry cloth.



Do not use chemicals like wax, benzene, alcohol, thinner, aromatic, or lubricant, etc.



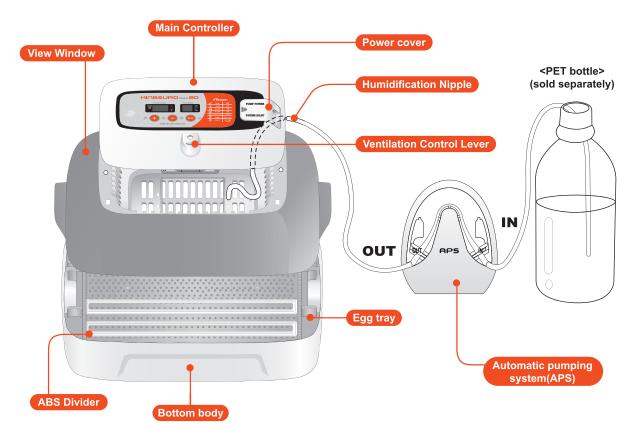
For special cleaning of inner part per year, contact to the

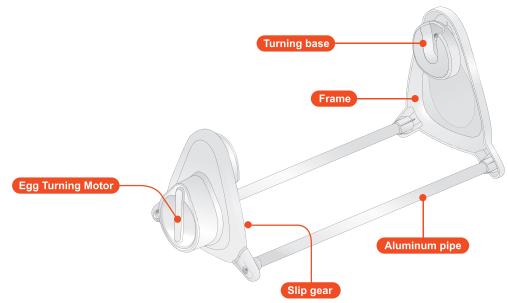
service center.

If you don't clean the inside of incubator for a long time, dust can cause some trouble or a fire.



### **Identification of Parts**



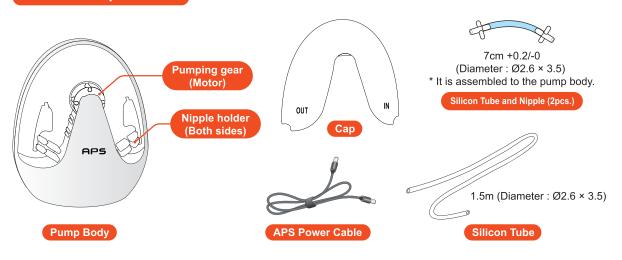


#### 1. Introduction

#### **Basic Components**

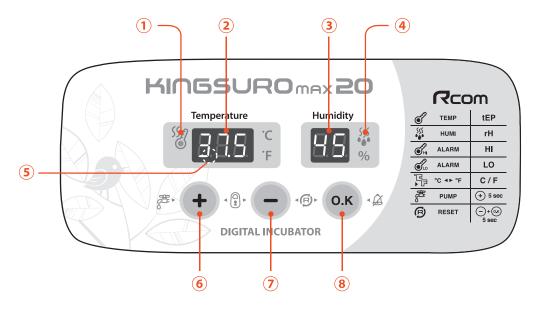


#### **APS Components**





#### Name & Function of Operation Parts



#### Names and components of each part

- ① Heater Operation Lamp
  - : Light on when working
- 2 Temp. Display
  - : Current Temperature Display
- 3 Humidity Display
  - : Current Humidity Display
- **4** Pumping System Operation Lamp
  - : Light on when working

- **⑤** Power Failure Alarm Function (FND light)
  - : Light on when power failure (Cancel Button : OK)
- 6 Up Button
  - : Setting Temp. & Humidity UP
- 7 Down Button
  - : Setting Temp. & Humidity DOWN
- **8** Menu Selecting Button
  - : Setting Value check
- Kingsuro is available to automatic humidity raise only, if you want to control low humidity level, please adjust "Air Controlling Lever" by manual [refer to page 15]

| + .8     | Setting Mode: Press two buttons at the same time to go to Setting Mode.                                |
|----------|--|
| O.K      | Select Menu / Quick Movement / Cancellation / Setting value check during incubation                    |
| +        | Value + / APS is forced to operate if press 5sec. / APS is forced to operate for 2min. if press 10sec. |
| <u> </u> | Value - / Factory Initialization   |

#### Function Key

| Function        | Temp. | Humidity | Cooling<br>Control Cycle | Abnormal High<br>Temp. Alarm | Abnormal Low<br>Temp. Alarm | Centigrade /<br>Fahrenheit |
|-----------------|-------|----------|--------------------------|------------------------------|-----------------------------|----------------------------|
| Display         | tEP • | rH •     | CL -                     | <b>→</b> HI •                | LO =                        | °C / °F                    |
| Default Setting | 37.5℃ | 45%      | OFF                      | 2℃                           | -3℃                         | °C                         |

#### 2. Before use

#### What's an Incubation Room?

The Incubation Room is a confined space for setting and operating an incubator.

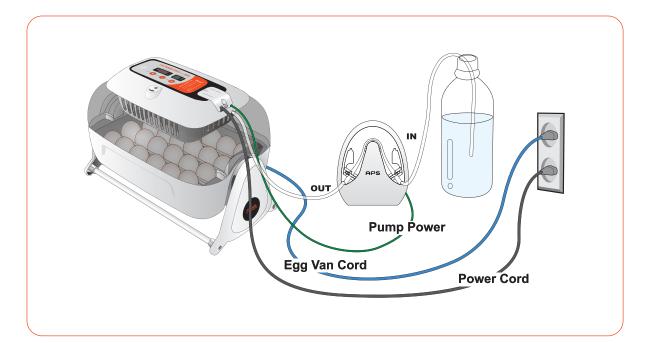
Because the incubation room environment has a considerable effect on hatch rate, it's recommended to control the environment for setting up an incubator; there should be little noise and vibration around 22~25°C(71.6~77°F) with small variation in temperature.

Especially, if there are frequent occasions when the temperature drops suddenly at night, compared with daytime, be sure to check from time to time and pay attention so that the incubator is not directly exposed to sunlight during daytime.



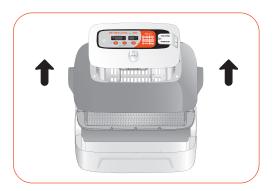
When the temperature of incubation room is lower than, recomended setting temperature there could be water-droplets in side of incubation room or water leak on the floor. because of dew condensation.

#### **How to Assemble**

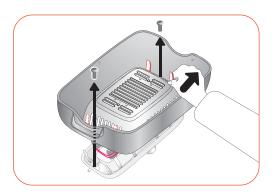


#### [ How to Assemble Main Body ]

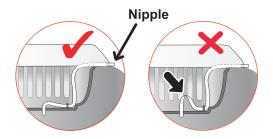
- ▶ Please remove all packing from the incubator and parts. Then, check each part is present and undamaged. (Please keep the carton and packing materials for repacking to retain the incubator in good condition when not using.)
- ► (EX:RCM0000000) If you register your information with your machine's serial number on our web-site(www. Rcom.co.kr), you can get 2 year warranty service. [Refer to the page 28]



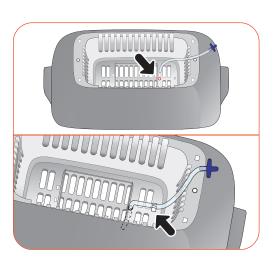
▶ Loose two bolts connecting main controller and view window. After that, disassemble main controller from view window by pulling 4 hooks on main controller.



▶ Fix silicone tube which is assembled with nipple into the



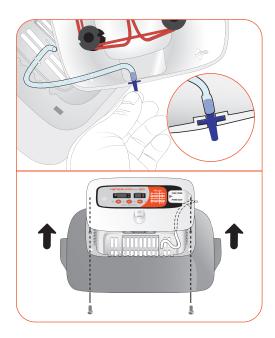
A Be careful to ensure the silicone tube is not folded.



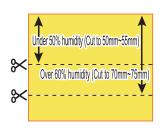
▶ Insert the nipple which is connected with view window to the hole of main controller, and assemble view window and main controller with two bolts.

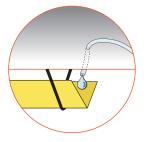


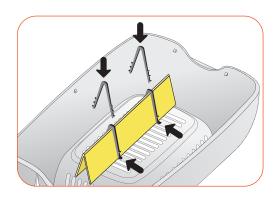
no not tighten the bolts too much.



▶ Cut Humidity pad to proper size, and then fix on the view window with 2 pins included.







New Evaporating ability is different from pad size.

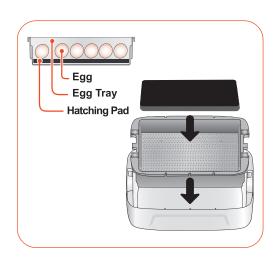
\*You can use Humidity pad for about 4 ~6 months, but it can be different depending on water quality.

- \* Humidity pad can be purchased separately.
- ▶ Assemble bottom body, Tray, and Tray hatching pad.



Ensure hatching pad is placed in egg tray.

\* After hatching finished, be sure to wash and dry tray mat completely for next use.



▶ Place eggs by adjusting tray divider according to egg size.



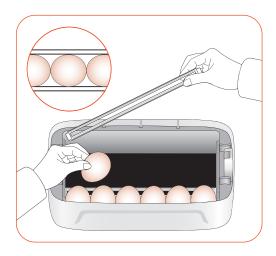
Control the space of eggs and divider optimally so the eggs are not interrupted for incubation.



The egg to incubate must be a fertilized egg. (Refer to the Rcom common sense app.)



It is recommended to place eggs with sharp end down.



▶ Place eggs and cover view window.



If view window is not closed completely, temp. fails to



Test the incubator to be sure that the incubator works without any problem before placing eggs in the incubator. Please ensure you remember how to use the machine and maybe re-read instructions.

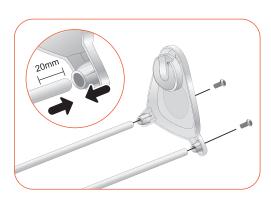


[ How to Assemble the EGG VAN ]

▶ Insert aluminum pipe to the frame exactly. Place the EGG VAN on a flat surface, and tighten the bolts. Incubator can drop in case of wrong assembly.



Do not turn the incubator manually when the incubator is on the EGG VAN. (It can cause egg turning device failure.)



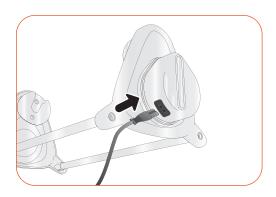
- ► Assemble opposite side with same way.
- EGG VAN turns the incubator and eggs very slowly about 90° per hour. The device can turn irregular intermittently, it is normal.



(Tip) Spray lubricating oil such as WD 40 on the gear part or operation part of EGG VAN for helping smooth operation.

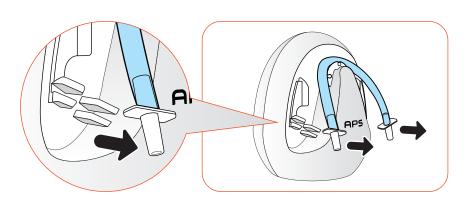


▶ Plug in the power code.



### How to Assemble APS (Automatic Pumping System)

- Open the cap of the APS body.
- ► Remove the silicon tube & nipples from the APS body.
- ► Cut the silicone tube to 0.5m and 1m lengths.



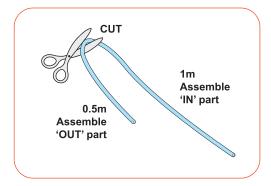
<u>^!\</u>

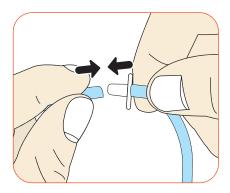
The silicone tube may become folded, causing a blockage. Please ensure that any blockages are removed by gentle pulling both ends of the tube before assembly.

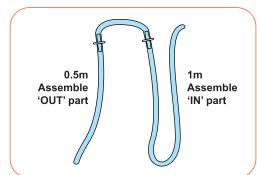
► Attach the cut parts of the silicone tube onto the nipples on either side of the APS unit.



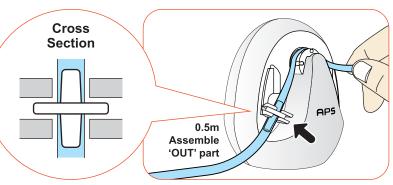
Please note that pumping performance will be reduced if the silicone tube isn't fitted tightly onto the nipple, or if the tube length is different.







As shown in Picture, insert a nipple, attached to 0.5m silicone tube, into the 'OUT' part (left-hand side) of the nipple holder.



#### 2. Before use

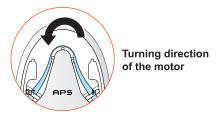
# (4) APS Assembly / Tube Replacement / Storage and Cleaning

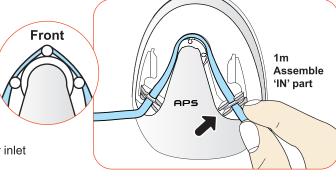


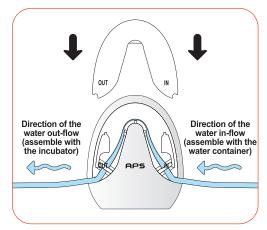
- As shown in Picture, insert a nipple, attached to 1m silicone tube, into the 'IN' part (right-hand side) of the nipple holder. (As for this part, short one is normal and it should be taut when installing)
- Assemble the cap onto the pump body.
   Please make sure silicone tubes do not get jammed in the cap.
- Connect the APS power cable onto the power inlet at the back of the pump body.
- ▶ Please refer to booklet manual page 16 for how to assemble the APS with the incubator.



As shown, water flows out of the left silicon tube, and comes into the right silicon tube.







#### **How to Replace the Tube**

▶ If the silicone tube wear out and it does not pump water effectively, you should replace silicone tube. [Refer to the page 13]



Be sure to use the silicon tube supplied from Autoelex(Rcom). ( $\emptyset$ 2.6 × 3.5)



If water does not flow out even if pumping motor is working, check if silicon tube is blocked or folded.

\* If pumping doesn't work well during use, lightly pull the end of the tube downward and check if the motor is turning counter clockwise. Pumping may not work if the specification of the silicon tube does not match with ours (Ø2.6 × 3.5)

#### **Storage and Cleaning**

- ▶ Do not wash APS with water but wipe with soft cloth.
- ▶ In case of long time storage, detach the silicon tube from the APS and remove the water from the tube. Keep the tube unkinked. It stops the tube hole from blocking.
- When assembling again, stretch the tube to open the hole in case the tube is blocked.

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#### **Humidity & Air Maintenance During Incubation**

- ▶ When hatching, humidity should be relatively high to prevent the thin membrane from drying out or hardening before hatching.
- ▶ When hatching, it's recommended not to open the lid often. If you open the lid often humidity will be rapidly decreased and it will take a long time to regain the proper humidity.



- ※ If incubatior temperature is higher than 37°C (98.6°F) and room temperature is low, it may be difficult to maintain. humidity of over RH 70%. There may be some difference of humidity about ±5% according to the external environment, but no problem with hatching.
- ▶ It's very important to maintain humidity higher 1~2 days before hatching than the early and middle incubation periods. Humidity requirements during incubation are RH 45~55% for waterfowl, RH 40~45% for poultry and RH 35~45% for parrot, in general. (One day before hatching, all kinds of birds need about RH 65% humidity and sometimes need higher than that.) However, in areas of high ambient humidity, lower levels of humidity may be needed during incubation.



It's very important to keep humidity higher than RH 65% before hatching 1~3days. [Refer to the page 20]

\*\* Air Controlling Lever : Outer fresh air can be flowed into incubator inside without affecting insulation. When eggs start hatching, open air controlling lever either fully or half-open.



Check water level every three days during incubation, and refill when needed. You'd better to use tap water than purified water or underground water for avoiding evaporating pad damage. (Evaporating pad is available from Autoelex Co.,Ltd. or Rcom distributors.)

\* Evaporating pad is expendables.

#### **Dew Condensation**

▶ This is a naturally occurring phenomenon when there is a significant difference in temperature between inside and outside of the incubator during incubation period. If this occurs, water may form in inside bottom of the incubator(bottom part).



Do not place any goods near the incubator.



#### **Incubator Installation**

Test the incubator to be sure that the incubator works without any problem before placing eggs in the incubator. Please ensure you remember how to use the machine and maybe re-read instructions.

▶ Place Suro incubator on the Egg Van. (egg turning device.)



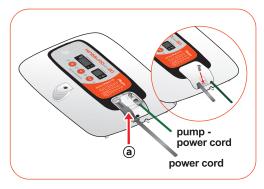
▶ Open the power cap, and insert the incubator power cord and pump power cord.



Be careful to ensure the cords do not get jammed when you tighten screw bolt.



f you open power cap, there is a sticker which is showing rated current in the position of pic. a.



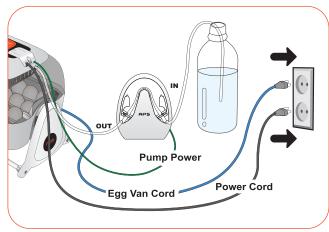
► Connect silicon tube end of APS (Automatic Pumping System) into the nipple of incubator, and the other end into PET bottle.



Please place the incubator, APS pump, and water bottle on a level surface and at a similar height.

The recommend height of the water bottle is 250mm.

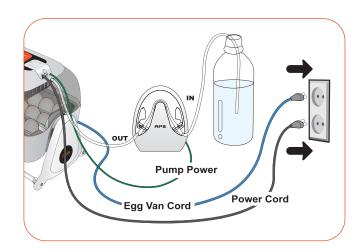
- ▶ Be sure to check rated current Pic. ⓐ before connecting power cord to outlet.
- ▶ Press (+) button for about 10 sec. for pump operation, and it automatically stop after 2min. If you want to stop pump operation, press any key.



If you do not insert silicon tube exactly, it will not work properly. [Refer to the page 13. How to replace silicon tube.]

#### **How to Start Incubation**

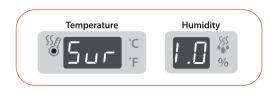
- ▶ If you connect power cord, incubator starts incubation with factory set conditions. [Factory setting: Temperature 37.5°C (99.5°F), Humidity RH 45%]
- Start incubation with required temperature & humidity for your species of birds.
- With incubation start, be sure to place the incubator on the egg van for egg turning. [90 degree per an hour.]





There can be some odor the first time you use incubator, which is normal.

- ▶ The first time you connect power, FND light will blink and pump will work for about 2sec. Then, incubator version will be indicated on FND for about 1 sec.
- ▶ After version indication, buzzer sounds for about 15sec. At the same time, present temp. & humidity displayed and power failure alarm indication ⓐ is blinking.
- ► Press O.K button to remove buzzer and alarm indication. (Buzzer will be removed automatically after 15sec.)
- Notice of Power Failure: If power is turned off and then on again because of power failure or by mistake, first dot will blink.
- Quick Start : If you just connect power, it automatically starts incubation with factory setting. [Factory setting : Temperature 37.5°C (99.5°F), Humidity RH 45%]





- ▶ Incubator display current temperature and humidity, and it goes to setting conditions within an hour.
- \*\* The artificial intelligence system memorizes and classifies ambient conditions for keeping optimum temperature, and temperature can move up slowly at the first stage.



#### **Turning stop During Incubation**

▶ Before 3 days of hatching, disassemble the incubator from EGG VAN, and place on a flat surface to stopping egg turning. After that, remove dividers.



Here, be sure to remove Egg Van power cord only. Be careful not to take power cord out of incubator.

▶ When incubating various species of eggs at the same time, you can move the eggs three days of before hatching to other brooder for easy and clean management. (You can operate two incubators, and various incubators or brooders are available from Rcom website.)

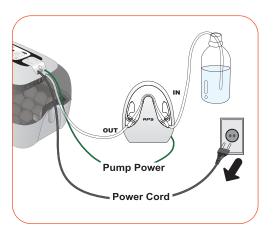




In case of altricial birds such as parrots or wild birds, turn the eggs once or twice additionally by hand.

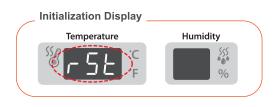
#### **Incubation Termination**

- ► There is no specified ON or OFF button on the incubator. Just turn off the power cord after hatching.
- It is not necessary to do Incubator Initialization with KING SURO 20 incubator after hatching. Just connect power again when you want to start incubation.



#### **Incubator Initialization**

- ▶ This function can be used when user input wrong setting, or incubation termination.
- ▶ Press and ok button at the same time for about 5sec. then display will show "rSt" and incubator returns to default setting.



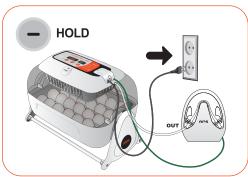


Calibrated setting value will not be initialized with this function. [If you need to initialize calibrated setting, refer to FACTORY SETTING next page.]

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#### **Return to Factory Setting**

- ▶ This function is for return incubator to factory setting.
- ▶ Unplug power cord. Replug during button is press ed. Then, "rSt AL" will indicated in display, and incubator return to factory setting. [Default setting]
- Calibrated temperature and humidity will also return to factory setting.





#### **Temperature Setting**



#### **Function Key**

| Function        | Temp.  | Humidity | Cooling<br>Control Cycle | Abnormal High<br>Temp. Alarm | Abnormal Low<br>Temp. Alarm | Centigrade /<br>Fahrenheit |
|-----------------|--------|----------|--------------------------|------------------------------|-----------------------------|----------------------------|
| Display         | tEP •  | rH •     | CL -                     | <b>→</b> HI -                | LO =                        | °C / °F                    |
| Default Setting | 37.5°C | 45%      | OFF                      | 2℃                           | -3℃                         | °C                         |

- ▶ Press (+) and (-) button at the same time then "tEP" will be indicated for about 0.5sec. and then temp display will blink.
- ► Then, you can adjust temperature with

  (+) and (-) button. [Default setting: 37.5°C (99.5°F)]
- ► After setting required temperature, press (o.k) button once then setting will be stored.

  Next, "rH" will indicated in humidity display for about 0.5 sec. and then humidity display will blink.
- \* Just press (o.k) button if you do not need to change setting.

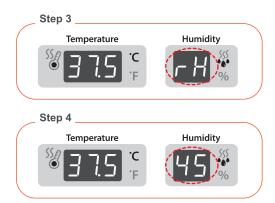






#### **Humidity Setting**

- ► From the temperature setting, press (o.k) button once and "rH" (Humidity) will be displayed for 0.5 second and humidity display will blink.
- ▶ When humidity display is blinking, adjust humidity setting with (+) or (-) button. [Default setting : RH 45%]
- ▶ After setting required humidity, press (o.k) button once then setting will be stored. Next, "CL" will be indicated for about 0.5sec.
- \*\* Just press ok button if you do not need to change setting.



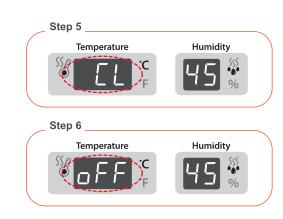


Kingsuro is available to automatic humidity raise only, if you want to control low humidity level, please adjust "Air Controlling Lever" by manual [refer to page 15]

The temperature and humidity level is optimized according to the international standard at the time of ship ping. It could be recalibrated by the user if the user wishes to do so, but this is not recommended. When in need of adjustment, please refer to our homepage (www.Rcom.co.kr → Information → User Manual Category) or contact the place of purchase. Commercially available thermometer and hygrometers may have drastic measurement deviations, so it is recommended to use thermometer and hygrometer designated for this purpose. [Designated Thermometer and hygrometer – Refer to Rcom Homepage]

#### **Cooling Control Cycle**

- From the humidity setting, press (o.k) button once and "CL" (cooling control cycle) will be displayed for 0.5 second and temperature display will blink.
- ▶ When temperature display is blinking, adjust cooling control cycle setting with or button.
  [Adjustment scope : OFF ~ 6h(hours) in 1 hour as a unit]
  [Default setting : OFF]
- After setting required cooling control cycle, press obutton once then setting will be stored.
  Next, "HI" will be indicated for about 0.5sec. and then maximum temperature limit will link.



What is 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.

## 4. Function Settings

(2) Temperature Setting&Humidity Setting / Cooling Control Cycle / How to Set Abnormal High Temp. Alarm

#### **How to Set Abnormal High Temperature Alarm**

\* Max. abnormal temp. alarm limit (0.0 ~ 5.0°C Default Setting:2.0°C)



Abnormal High temperature:

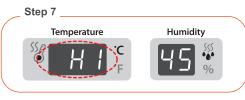
This function gives notice when incubator temperature is higher than setting temperature because of abnor

mal ambient temperature increase.

When room temperature is higher than incubator tem perature, this function works with buzzer. Here, "HI" and temp. gap are displayed alternatively. Press OK button to remove buzzer.

- ▶ From the cooling control cycle setting, press the (o.ĸ) button once and "HI" (abnormal HIgh temperature alarm) will be displayed for 0.5 second and temperature display will blink.
- ► Adjust abnormal high temperature value with

  → or → button. [Default setting : 2°C (2°F)]
- ► After setting required value, press (o.k) button to save. Then, it will go to the next stage, abnormal low temp. setting with display "LO" for about 0.5 sec.





ex:





- It shows that the set temperature value is approximately 3°C (3°F) higher than the Maru incubator's incubation chamber(the Cabinet).
- \* Just press (o.k) button if you do not need to change setting.

#### **How to Set Abnormal Low Temperature Alarm**

- ▶ This function gives notice when incubator temperature is lower than setting temperature because of abnormal ambient temperature decrease.
- From the Abnormal High Temperature Alarm setting, press the ox button once and "LO" (abnormal LOw temp. alarm) will be displayed for 0.5 second and the temperature display will blink.
- ► Adjust abnormal low temp. setting with button. [Default Value: -3°C (-3°F)]
- ► After setting required value, press ok button to save. Then, it will go to the next stage, °C & °F change.

\* Min. abnormal temp. alarm limit (0.0 ~ -5.0 °C Default Setting:-3.0 °C)

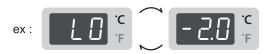




Then, it will go to the next stage, C & F change.

Abnormal Low Temperature: "LO" will indicated on LCD.

(The others, same with abnormal high temp. alarm function.)



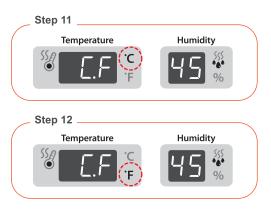
- It shows that the set temperature is 2°C (2°F) lower than the actual cabinet temperature of the machine.

#### How to change Centigrade & Fahrenheit

- ► From the abnormal LOw temperature alarm setting, press (O.K) button once and "C.F" (Celsius/Fahrenheit) will be displayed for 0.5 second and LED for "C" will blink.
- ▶ Select °C or °F with ◆ or → button.
- ► After selecting °C or °F , press OK button to save. [Default setting : °C]



\* Just press (o.k) button if you do not need to change setting.



#### How to Work Automatic Pumping System(APS) by Force





If you press (+) button for about 10sec. pump will operate for about 2min. Press any key to remove.

#### Maintenance after Hatching

Newborn birds are vulnerable to cold so it is essential to have a separate development room (brooding device) In case of developing (brooding) inside the incubator, the incubator can easily become contaminated with various bacteria which can become a major cause of reduction of hatching rate and various feather, dust, bark, manure and other pollutants can become the cause of incubator failure. In case of failure due to inappropriate usage can cause repair costs to occur even if it is within the free A/S period so purchasing of a separate development(brooding) is recommended. Instructions to build a simple develop ment (brooding) room can be found on our homepage. (www.Rcom.co.kr → Rcom Study → Making a birdcage)



Do not developing chicks inside the incubator. It becomes the source of malfunction of the device and repair charges will rise even if it is within the free A/S period.





Generating Room : Space for hatching (breaking of the egg) and used 1~3 days before hatching (Rcom maru H&B)

Development (Brooding) Room : A device designed for newly hatched chicks to adjust to the environment by maintaining proper temperature and humidity for certain amount of days.

(Rcom maru H&B / Rcom bird brooder &ICU)

▶ As there is some difference in chick feed for each kind of bird, so it's desirable to obtain useful information about the chicks before hatching.

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# 5. Management

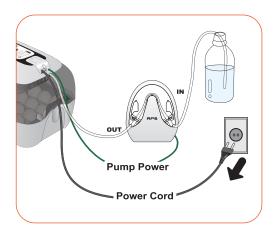
#### How to Disassemble and Clean the Incubator



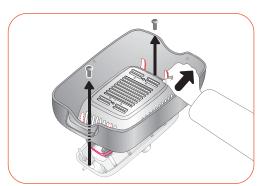
Be sure to take off power cord before cleaning the incubator.

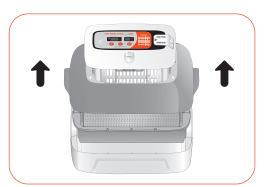
After incubation terminated, never leave the incubator covered with view window. Moisture inside of the incubator vaporizes and it can stick to electric parts causing operation failure.

Be sure to dry the incubator perfectly.

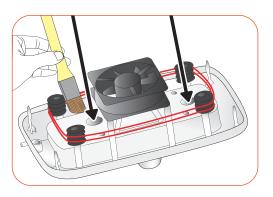


► Remove main controller from view window. [Refer to the page 10]





- ▶ Wipe the main controller smoothly with soft brush. Be careful not to give impact to sensor part or heating part.
- Temp. & Humidity sensor is assembled with connector for easy replacement in case of trouble.



▶ Wash the window, tray, hatching pad and main body with warm water.



- ▶ Do not wash EGG VAN and Automatic Pumping- System (APS) with water, just wipe with a soft cloth.
- ▶ Please remove the water in the silicon tube of the APS and leave to dry completely.



Do not use benzene or thinner when wipe the unit. It can cause transformation or decoloration.



▶ Wipe the exterior with a soft cloth, and completely dry before storing.

