New Rcom 20 USER'S MANUAL

R-com Digital Incubator

PX-20(Standard) www.R-com.co.kr

1. Safety Cautions

Electrical hazards

⚠️**CAUTION** 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 taking out the power cord, and keep wet hands away from connecting plug.
Risk of electric shock or fire.

Never pull the plug out of the 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 overload.

Setting Cautions

⚠️**CAUTION** 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 will pour out of the incubator, and view window can be dropped or damaged.

Do not install where children or other people can touch with easy.
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.
Risk of electric shock or fire.

If the incubator sounds strange or emits smoke contact your service center.
Risk of electric shock or fire.

Clean the incubator thoroughly before storing.

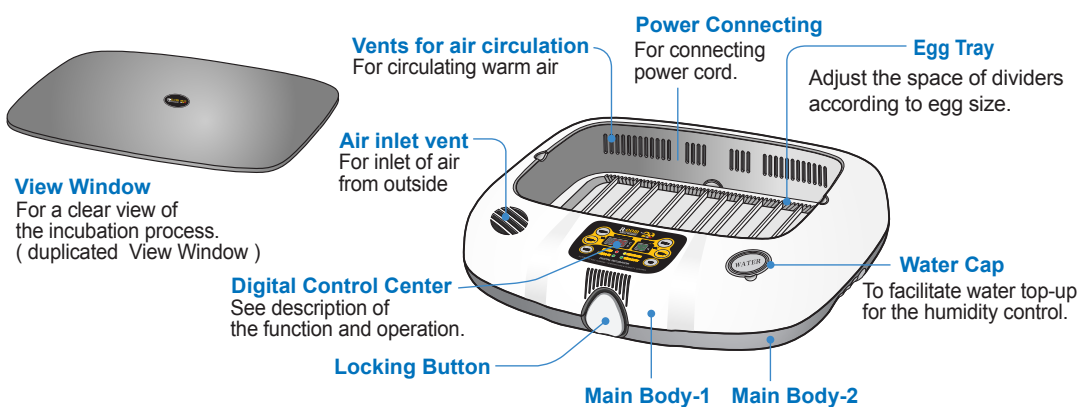If the incubator requires repair disconnect from the power supply and please contact to your service center.

Cleaning Cautions

⚠️**CAUTION** Be sure to disconnect the electric cord from the outlet before cleaning.

Do not spray cleanser directly on the incubator surface.
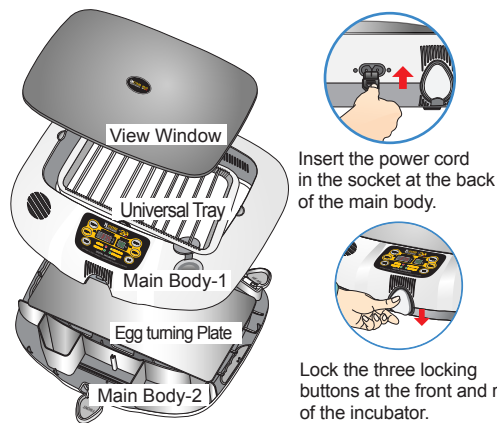
Clean the incubator by a soft cloth with a neutral detergent.

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.

2. Identification of Parts

Vents for air circulation For circulating warm air

Power Connecting For connecting power cord.

Egg Tray Adjust the space of dividers according to egg size.

Air inlet vent For inlet of air from outside

View Window For a clear view of the incubation process. (duplicated View Window)

Digital Control Center See description of the function and operation.

Locking Button

Water Cap To facilitate water top-up for the humidity control.

Main Body-1 Main Body-2

3. Basic Components

Main Body-1

Main Body-2

Power Cord

View Window

Universal Tray

User's Manual

4. How to Assemble

View Window
Universal Tray
Main Body-1
Egg turning Plate
Main Body-2

Insert the power cord in the socket at the back of the main body.

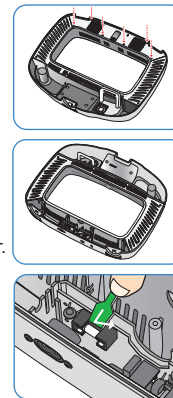Lock the three locking buttons at the front and rear of the incubator.

5. How to Replace Fuse

Ver E 3.1.1

▶ When the machine failed to power on even if you pluged in, remove the fixing piece like the picture by screwdriver.

▶ You can find assembled PCB when open the cover. Remove faulty fuse with screwdriver.

▶ Replace with new fuse. (250V 2.0A Ø5*20mm)

6. Before use

▶ Insert the electric cord in the connecting socket at the back of the Main body and put the power cord into the outlet. The display will come on.
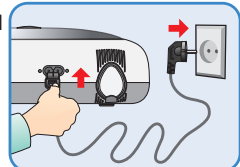
💡 There can be some odor the first time you use the incubator, that is normal.

▶ Open the watercap and fill the hole with clean water. And, refill water after 5 min. The styrofoam ball floats on and blocks the hole when full. (Humidity goes down temporarily, in case you refill water under incubation period.)
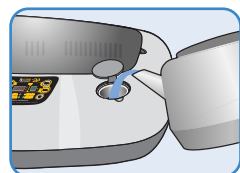
⚠️ You should stop to fill in the water as soon as the Styrofoam ball floats on. The ball will block the hole when full. After filling up with water, never shake or turn over the main body of the incubator.

💡 Check the water level every three days and refill fully on incubation period. The light for water top-up can remain for a while after you filled up.
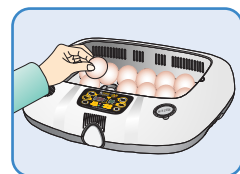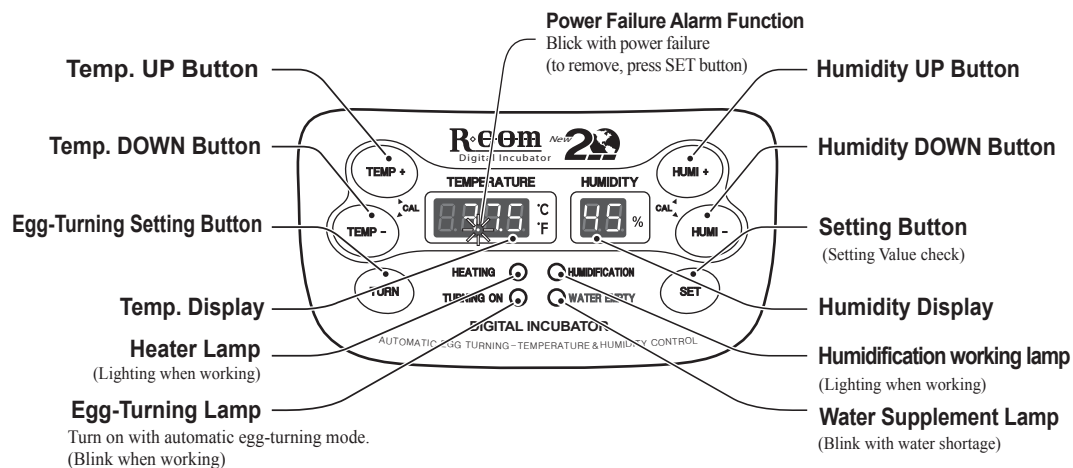
▶ Place your eggs and cover the view window.

💡 The egg to incubate must be a fertilized egg.
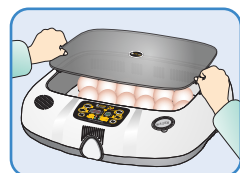
⚠️ You can turn off humidification function when you don't fill water with your incubation or when you need low humidity incubaion under 40%. (Water supplement alarm will turn off with this function. Refer to "How to turn OFF humidification function.")

7. Operation Part

Temp. UP Button

Temp. DOWN Button

Egg-Turning Setting Button

Temp. Display

Heater Lamp (Lighting when working)

Egg-Turning Lamp Turn on with automatic egg-turning mode. (Blink when working)

Power Failure Alarm Function Blick with power failure (to remove, press SET button)

Humidity UP Button

Humidity DOWN Button

Setting Button (Setting Value check)

Humidity Display

Humidification working lamp (Lighting when working)

Water Supplement Lamp (Blink with water shortage)

8. Easy Function Operation

REFER TO "HOW TO START INCUBATION" FOR MORE INFORMATION.

Function	How to Operate		Explanation
Temp. Setting	SET **HOLD** ▶ TEMP + or TEMP −		Setting of needed temp.
Humidity Setting	SET **HOLD** ▶ HUMI + or HUMI −		Setting of needed humidity.
Egg-Turning Interval Setting	Default setting every1 hour (Lamp: ON) ▶ SET **HOLD** ▶ TURN 2 Hours (once) ▶ TURN 3 Hours (2 times) ▶ TURN Lamp OFF (3 times(OFF)) ▶ every 1 hour (Lamp ON) (4 times) repeat		Egg-Turning Interval Setting as required
Egg-Turning Test	TURN 5 Sec.		Egg-Turning Test (once)
Changing Cels. & Fahr.	TEMP + + TEMP − ▶ CA **HOLD** ▶ SET		Changing Cels. & Fahr.
Temp. Calibration	TEMP + + TEMP − 5 Sec. ▶ CA ▶ HUMI + or HUMI − ▶ SET		How to calibrate temperature.
Humidity Calibration	HUMI + + HUMI − 5 Sec. ▶ CA ▶ HUMI + or HUMI − ▶ SET		How to calibrate humidity.
Initialization (Factory setting)	SET **HOLD** + POWER IN ▶ rSt		**Initialization**
How to OFF Humidification Function	SET **HOLD** + HUMI − ▶ 20%		Set Humidity as 20%

※ **If you want to change setting value, keep pressing "SET" button and change the value.**

9. How to start incubation

▶ If you connect incubator with power cord,
  it starts incubation
  with existing temperature and humidity.
  (Factory default setting-Temp.:37.5℃ / Humidity: 45%)

▶ Be sure to turn on when incubation started,
  and turn off before 3 days of hatching.
  (Refer to 8. Easy operation)
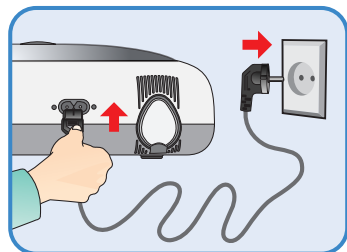
Tip There can be some odor the first time you use
   the incubator, that is normal.

10. How to Terminate Incubation

▶ After all eggs are hatched, you should take off the power cord for incubation termination.

> If you leave the incubator alone without drying water after high humidity incubation, the water inside of incubator condenses and makes waterdrop at the LCD display or control device. For preventing this problem, disassemble main body 1 and 2, and dry completely before storing. (You can dry the incubator as operating the incubator for about 1 to 2 hours after removing water.)

11. How to Supply Water for Humidity Maintenance

▶ Check the water level every three days and refill fully on incubation period.
  The styrofoam ball floats on and blocks the hole when full.
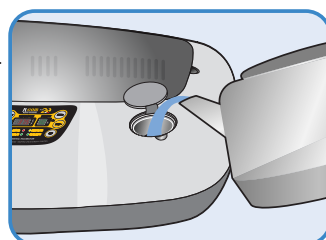
⚠ Check water level every three days on incubation period,
   and refill fully with warm water.

12. How to set Temperature
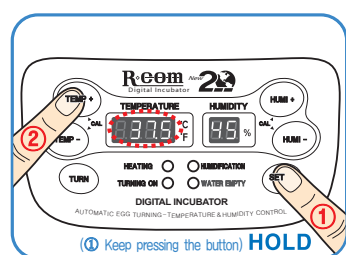
▶ In a state of SET button is pressed, adjust the
temperature you want with TEMP + or TEMP - button.

Temperature setting will be completed when you remove
your finger from the SET button, and present temperature
of the incubator inside will be indicated.

Tip If you set the incubator under a direct ray of
    light or too cold spot, the incubator temperature
    can be higher or lower than setting temperature.

Tip If you press SET button, the present setting
    temperature and humidity will be indicated and,
    if you remove your finger from the button, the present
   inner temperature and humidity indicated.

13. How to set Humidity
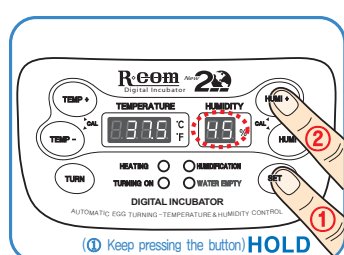
▶ In a state of SET button is pressed, adjust the
humidity you want with HUMI + or HUMI - button.

Humidity setting will be completed when you remove
your finger from the SET button, and present humidity
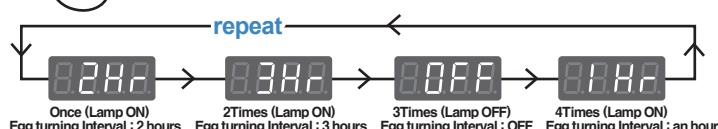of the incubator inside will be indicated.

▶ Be sure to set humidity 65%~70% from 1~2 days
  before hatching.

Tip Temperature and humidity can be different from
    normal setting levels according to the surrounding
    environment.

14. How to Set Egg Turning ON / OFF
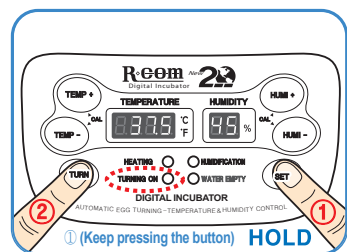
▶ Egg Turning Test : If you press TURN button for
  about 5 seconds, egg turning test will be effected once.

▶ In a state of SET button being pressed, press
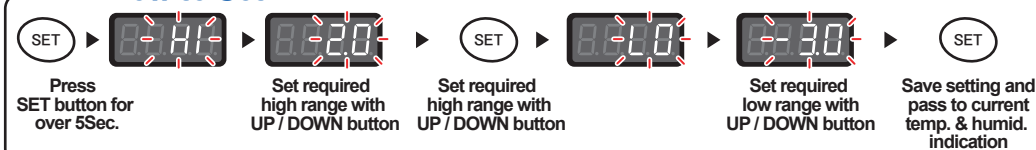 TURN button then the setting will be changed as required.

repeat

2Hr	3Hr	OFF	1.Hr
Once (Lamp ON)	2Times (Lamp ON)	3Times (Lamp OFF)	4Times (Lamp ON)
Egg turning Interval : 2 hours	Egg turning Interval : 3 hours	Egg turning Interval : OFF	Egg turning Interval : an hour

⚠ Be sure to set TURNING OFF
   3 days before hatching.

15. How to Set Abnormal High or Low Temperatue Alarm

▶ What is Abnormal High or Low Temperature Alarm?
  It is alarm soulds when incubator temperature is higer or lower than setting value because of various reasons such as room temperature change or disorder of temperature controlling system.

※ How to Set

SET ▶ H1 ▶ 2.0 ▶ SET ▶ L0 ▶ 3.0 ▶ SET

Press SET button for over 5Sec.	Set required high range with UP / DOWN button	Set required high range with UP / DOWN button	Set required low range with UP / DOWN button	Save setting and pass to current temp. & humidit. indication

* Max. abnormal temp. alarm limit (0.0℃ ~ 5.0℃ Default Setting:2.0℃)
* Min. abnormal temp. alarm limit (0.0℃ ~ -5.0℃ Default Setting:-3.0℃)

16. How to Turn ON/OFF Humidification Function

▶ In a state of SET button being pressed, press HUMI- button to adjust humidity at 20% and, then, humidification function will be OFF.
  On the contrary, if you adjust humidity above 20%, its function will be ON.

17. Change Cels.&Fahr.

▶ Press TEMP + button and TEMP - button

  at the same time, and CA will show on Temp. display.

  Then, press SET button. It will change.   ℃ repeat ℉

HOLD (Keep pressing the button)
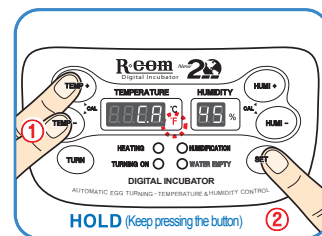
18. How to Calibrate Temp.(Humidity)

⚠ CAUTIONS This calibration function is to reset the temperature and humidity of the incubator to correct values using your thermometer and hygrometer. It is better not to calibrate the incubator as normal thermometer and hygrometer are not reliable than incubator factory setting.

Tip How to calibrate : Place the thermometer or hygrometer at 5 cm above
    the bottom of the tray and operate it for one hour before starting its calibration.

* Be sure to check ⚠ CAUTIONS before you calibrate temperature or humidity.

▶ How to Calibrate Temp. (or Humidity):
  Temp. (Humidity) Calibration: Press TEMP+(or HUMI+) and TEMP-(or HUMI-) button at the same time then "CA" will show on the display. Keep pressing these buttons for about 5sec. then Temp. (or humidity) diaplay will blink.
  Here, set the required temperature (or humidity) with TEMP+(HUMI+) or TEMP-(HUMI-) button, and press "SET" button.

- After Calibration -
If you can not rely on your thermometer or hygrometer, you can initialize the incubator to factory setting.
(Refer to Incubator Initialization)

19. Incubator Initialization

(ALL RESET)   For returning to the factory setting

It is for initializing the incubator setting or calibration to factory setting
when you handle improperly so that the value changed.
Unplug the power supply. And, hold SET button as picture①. Re-plug the power supply as picture②.
Then, rSt will show on the display, and the incubator will be initalized to factory setting.

① Keep pressing SET button HOLD + ② Re-plug the power supply = ③ "rSt" will show on the display as below, and the incubator initialize to factory setting.
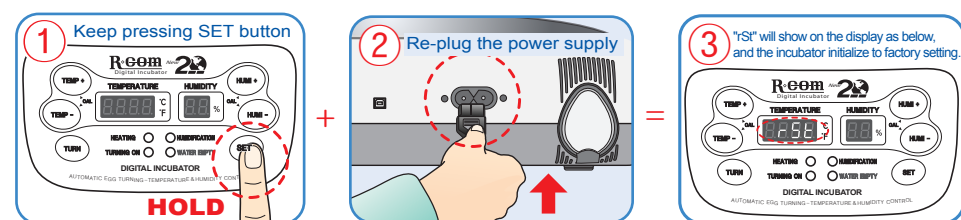
20. How to Clean after Hatching

▶ Pull out the electric cord from connecting jack,
  and also take out the plug from the outlet.

▶ Unlock three of locking buttons at the front and back of incubator,
  and disassemble the incubator.

▶ Disassemble the incubator. The bottom part shall be thoroughly cleaned with water and dried.The upper parts shall be naturally dried in order to remove moisture inside of the incubator.
  Assemble the parts in the reverse order of disassembly.

▶ In case of you operate humidification function, there can be moss on the humidification heating part ⓐ. It doesn't effect in function, and you just need to clean it with soft brush after hatching.

back

⚠ Do not inflict an impact to the humidification heating part ⓐ.
   Or, it will be damaged.

⚠ Do not clean the product with organic solvents
   such as benzene and paint thinner.

ⓐ
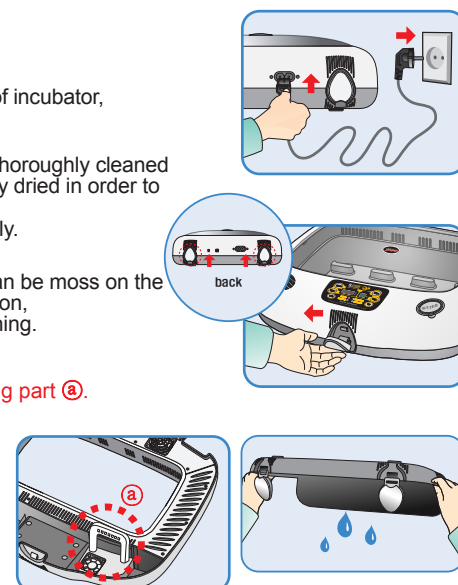
21. Specification

Power	AC 100V~120V, 50/60Hz / AC 220V~240V, 50/60Hz	
Temp. limits	20℃ ~ 42℃(68℉~107.6℉)	
Temp. Accuracy	± 0.5℃	
Working Temperature	Ideal : 22℃~25℃	Min. 20℃ / Max. 26℃
Humidity Limits	20% ~ 70% (It can be changed according to the conditions)	
Humidity Accuracy	± 5%	
Power Consumption	Average 48W	
Capacity	Universal Tray 10판~50판	
Net Weight	4.35 Kg	
Size	(W)500×(L)410×(H)160 (mm)	
Fuse Standard	250V 2.0A (Ø5×20mm)	

Visit our web site (www.r-com.co.kr) for more information
on our products and other informations.
Update of information : download the necessary information
from resource room in Rcom homepage.

R-com digital incubator is designed for easy and convenient use.
For the improvement of the functions of the incubator, design,
how to use, etc. can be changed without notice in advance.

AUTO ELEX CO.,LTD.
www.R-com.co.kr
www.autoelex.com

● COMPANY : #612 DukAm-Ri, JuChon-Myeon,
           : GimHae-City, GyeongNam, KOREA
● TEL   : 82-55-337-2560 (Direct to sales team)
           : 82-55-337-2561-3, 2567 (Office)
● FAX   : 82-55-337-2568
● E-MAIL   : auto@autoelex.com (Sales team)