

CiMUKA EGG INCUBATORS

PD30 / PD60

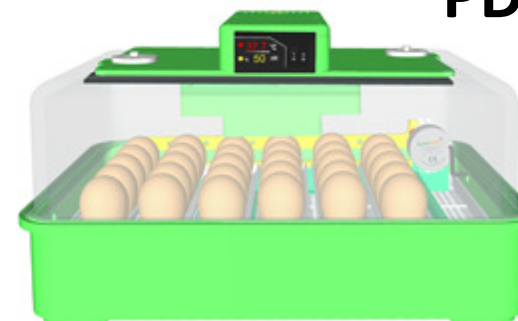
PD SERIES

Please read the instructions in this user manual carefully before use the incubator.
IMPORTANT! Keep this user manual safe for future reference.

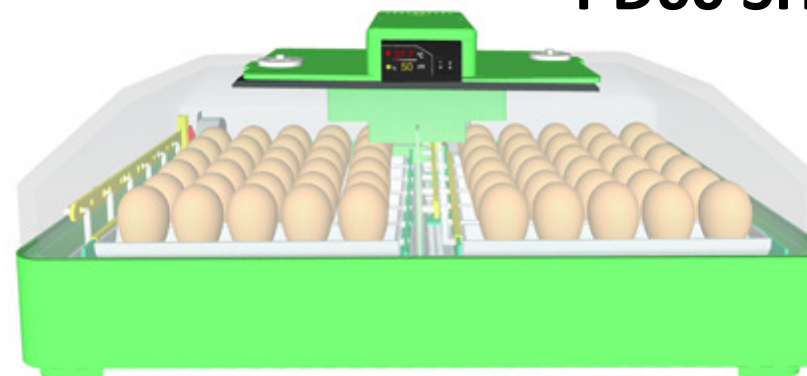
USER MANUAL

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PD30 SH / H

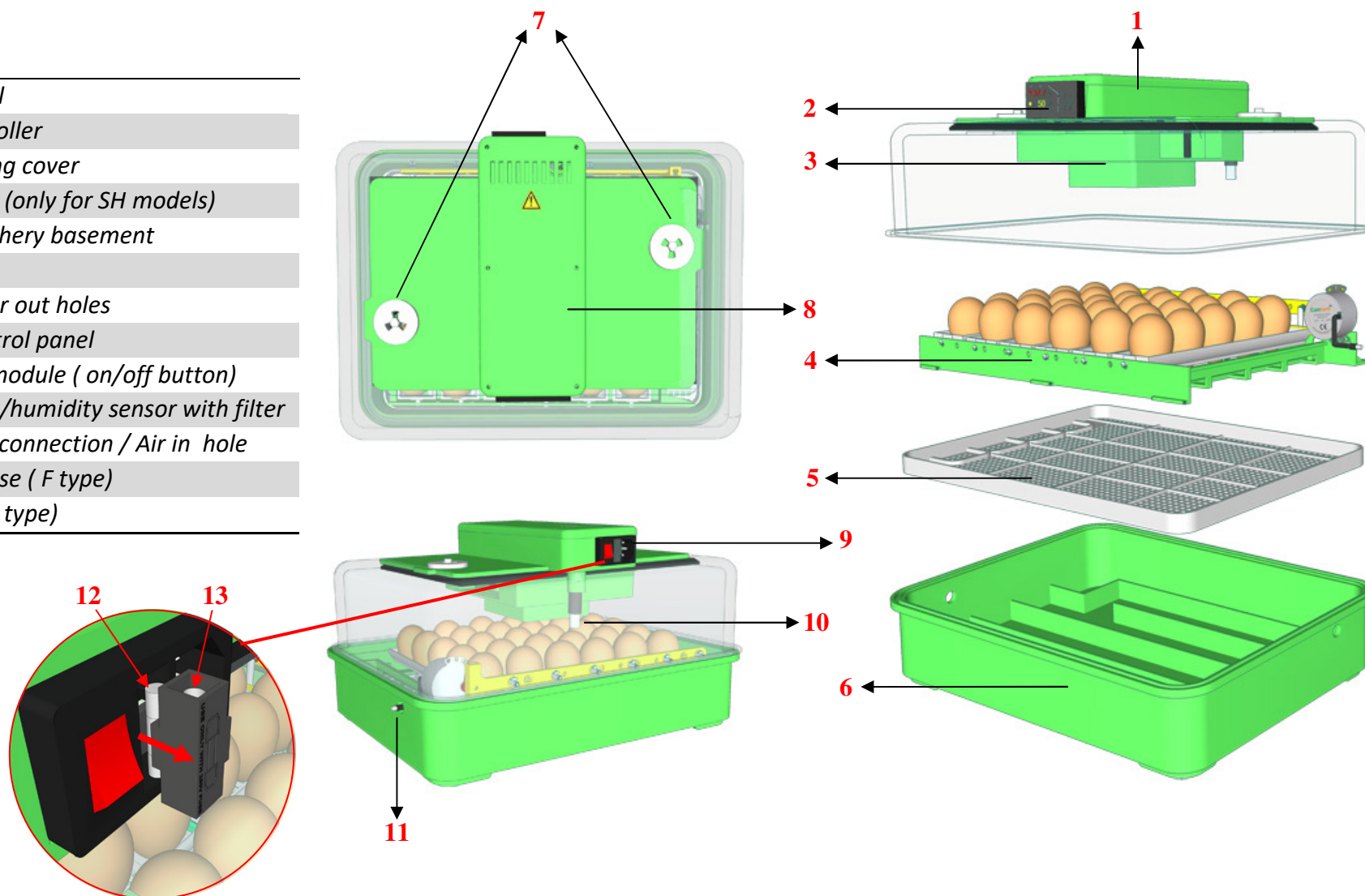


PD60 SH / H



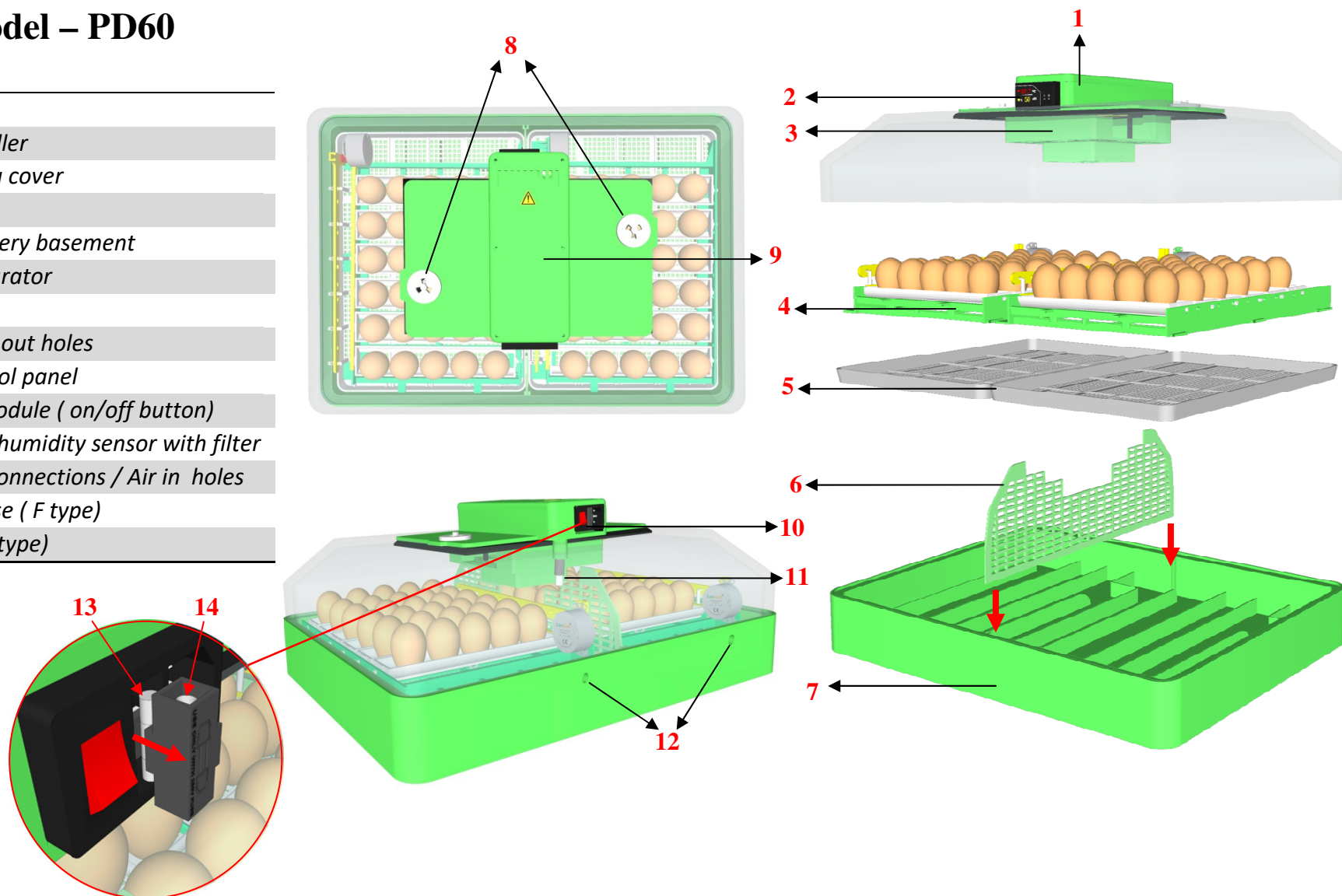
Parts of Model – PD30

- 1 Control Panel
- 2 Digital Controller
- 3 Fan protecting cover
- 4 Conturn™ 30 (only for SH models)
- 5 CS40Y – hatchery basement
- 6 Base
- 7 Adjustable air out holes
- 8 Cover of control panel
- 9 Power inlet module (on/off button)
- 10 Temperature/humidity sensor with filter
- 11 Conturn™30 connection / Air in hole
- 12 Protection fuse (F type)
- 13 Spare fuse (F type)



Parts of Model – PD60

- 1 Control Panel
- 2 Digital Controller
- 3 Fan protecting cover
- 4 Conturn™ 30
- 5 CS40Y – hatchery basement
- 6 Hatching Separator
- 7 Base
- 8 Adjustable air out holes
- 9 Cover of control panel
- 10 Power inlet module (on/off button)
- 11 Temperature/humidity sensor with filter
- 12 Conturn™30 connections / Air in holes
- 13 Protection fuse (F type)
- 14 Spare fuse (F type)

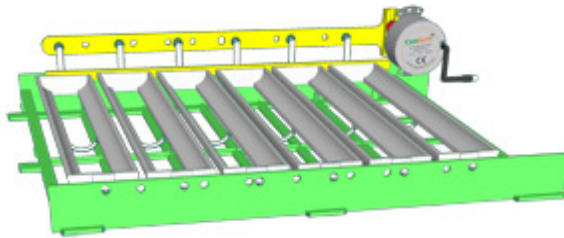


PD SERIES

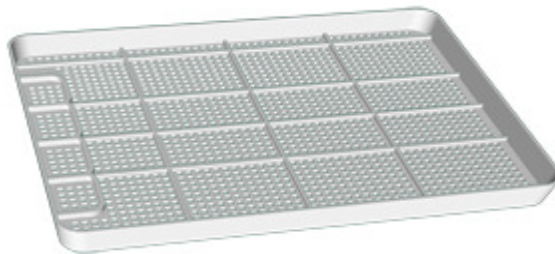


Accessories

Conturn™ 30



CS40Y



	PD30		PD60	
	SH	H	SH	H
Conturn™30	1 pc	-	2 pc	-
CS40Y	1 pc	1 pc	2 pc	2 pc
Conturn™ Adapter	1 pc	-	1 pc	-
Distribution Cable	-	-	1 pc	-
Power Cable	1 pc	1 pc	1 pc	1 pc
QT13 – Quail rack	Optional	-	Optional	-
GT03 – Goose rack	Optional	-	Optional	-
CS06 – Hatchery Basket	Optional	-	Optional	-

Conturn Adapter



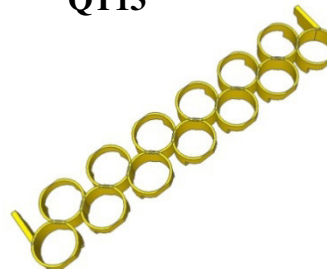
Distribution cable



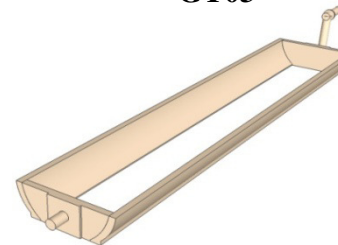
Power Cable



QT13



GT03



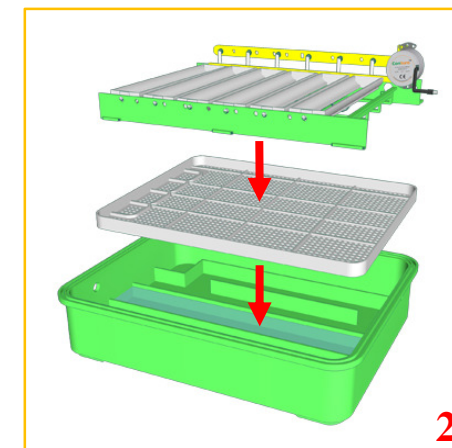
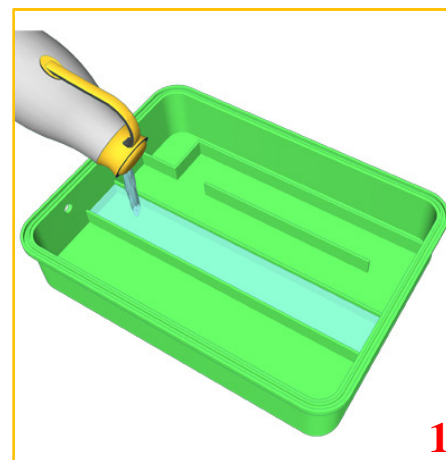
CS06



CAUTION! Any damaged part must not be used.

Quick Guide

- Remove all packing material carefully.
- Please identify and check all parts of model. (see page 2-4)
- Fill humidity tray with water (1 channel). **Picture 1**
- Place CS40Y hatchery basement and Conturn™30 to the base.
Picture 2
Note: if your eggs is bigger than chicken egg, Conturn30 racks should be adjusted for your egg type (see page 12-15)

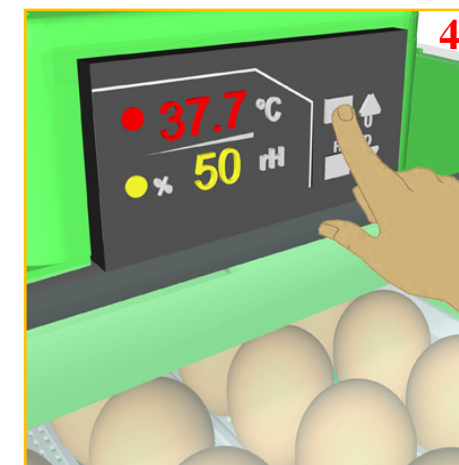
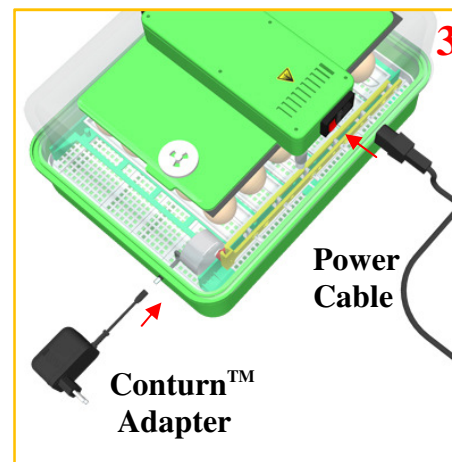


- Plug your machine and Conturn™ adapter to electric supply.
Picture 3

Caution! Don't use the equipments that need high electric current in the same electrical line with your egg incubator.

Caution! Always use a grounded power line for your incubator.

- Press power-on button and set temperature for your eggs. **Picture 4** (see page 8)
- When temperature was reached set point and after work min 1 hour, check humidity value in digital controller. If needed, adjust humidity by water channels (see page 10)
- The incubator must be worked for 3 - 4 hour to check all parts before first setting.



Placement of Model

Your incubator must be located in an indoor area. The area must be clean and ventilated. Ideal distance from walls is 40 cm. Don't place machine close to the walls of incubation room. The Incubator must not be exposed to direct sunlight and not subject to splashes of water or high humid conditions.

Place your incubator to a flat surface far from doors and windows.

Ideal incubation room temperature is 20–25 °C. Wide temperature variations in the room affect your incubation results. If your area is very cold or hot, use air condition system in room.

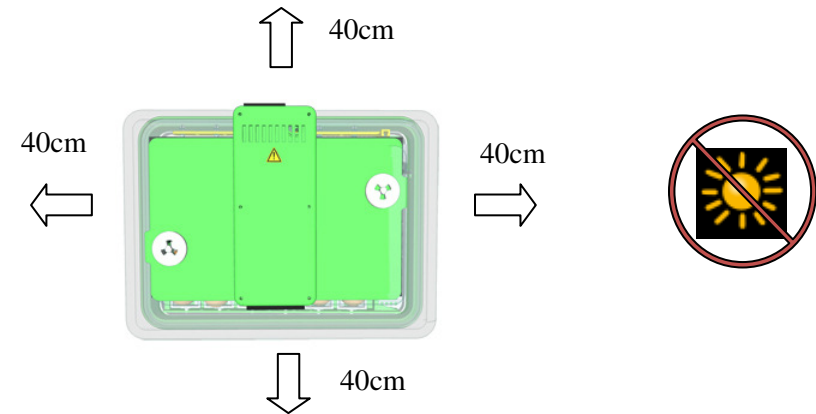
Be sure that room is being ventilated adequately for fresh air

Caution! Don't let room temperature below 15 °C and above 30 °C

Caution! Never use your egg incubator on floor.

Caution! Don't let reaching of animals and insects to the incubator.

Caution! Don't let accessing of children or person that have physically or mentally problems to the incubator.



Ventilation

Embryo needs proper oxygen levels and produce carbon dioxide during incubation. To supply oxygen in proper level and remove carbon dioxide, ventilation is essential.

In PD series models, ventilation is supplied automatically with fan and air-in / air out holes. Air-out vents are adjustable.

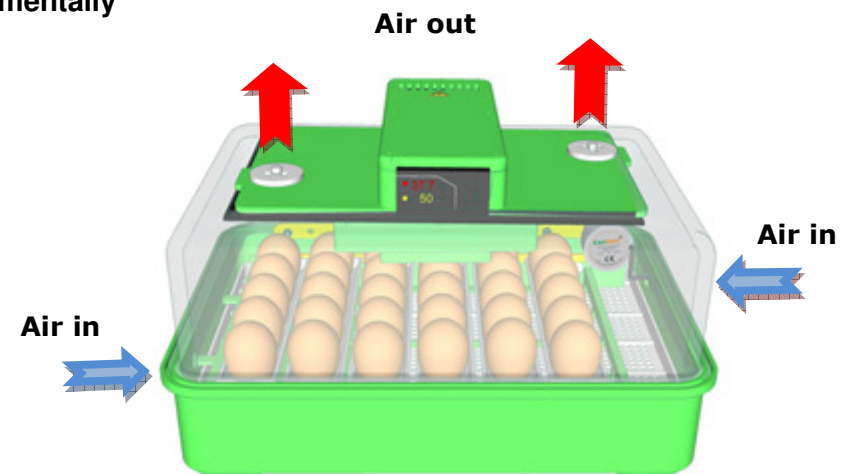
Be sure that your air out vents and air in holes are open.

Caution! Never close air- in / out holes.

Caution! Air-out vents must be full open during hatching period.

Caution! Never make animal breeding in incubation room.

Caution! Be sure incubation room has adequate air intake.



Egg Handling

Eggs must be collected carefully and stored in good conditions up to setting. Quality of eggs is very important for hatchery results. Sanitizing eggs before storage is an effective method for killing or decreasing the amount of microorganisms in egg surface. You must know that sanitation processes does not only kill the bacteria, but it can also kill the chick embryo in the egg. Use proper sanitary procedures.

Ideal egg storage temperature is **12–13 °C**. Store eggs in cool condition (**between 10 to 20 C**) and never let them be exposed to sunlight. Daily turning of eggs is suggested during storage to maintain hatchability.

Caution! *The eggs never be stored in refrigerator. (4°C is very low)*

Caution! Storage of eggs in bad conditions higher than 7 day decrease egg quality and so hatchability.

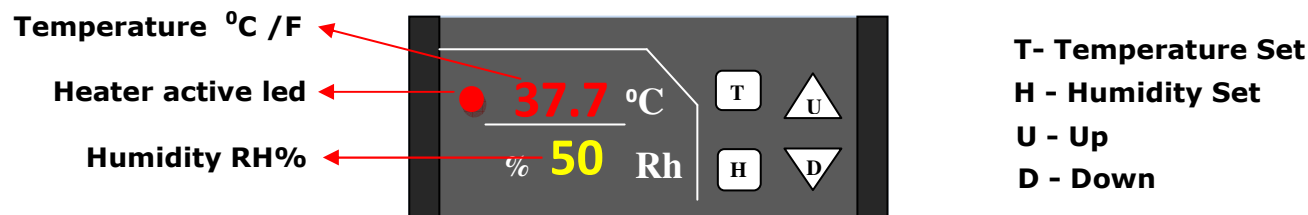
Caution! Eggs must be stored 1 day minimum before setting.

Caution! For dirty eggs, never use cloths to clean and improper washing procedures.

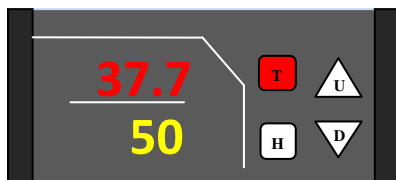
Temperature Controller

In egg incubation, the most important factor is temperature. Temperature control is provided by electronic controller which manages heater units with high precise electronic control system.

Embryos tolerate short term temperature drops, however higher temperatures than ideal affect embryos detrimentally. Be sure that your temperature setting is true and don't concern about short term cooling of eggs when cover open for water adding or inspections.

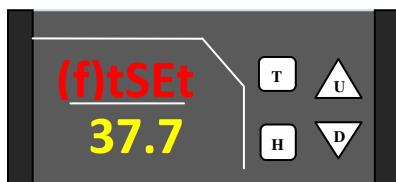


To check temperature set point



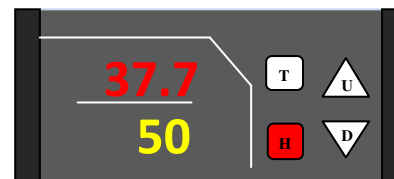
When main screen is active,

Press **T** button and release



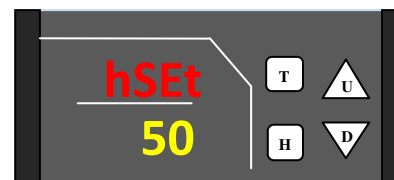
(f)tSEt – Temperature Set Screen
will appear 2 s and turn back to main screen.
Down value is temperature set point.

To check humidity set point



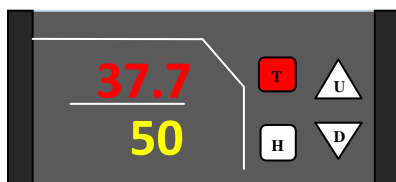
When main screen is active,

Press **H** button and release

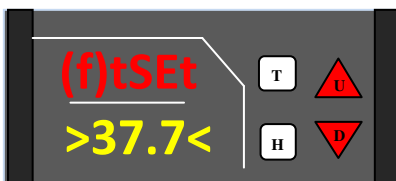


hSEt– Humidity Set Screen
will appear 2 s and turn back to main screen.
Down value is humidity set point.

To change temperature set point



When main screen is active,
keep pressed **T** button / 2 s

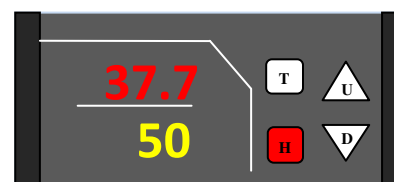


While temperature set value blinking
Use **U / D** buttons to adjust
temperature set point

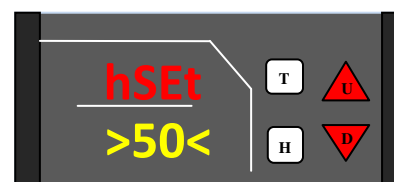


When finished adjustment,
Press **T** button to “save” adjusted value.

To change humidity set point



When main screen is active,
keep pressed **H** button / 2 s



While humidity Set value blinking
Use **U / D** buttons to adjust
humidity set point

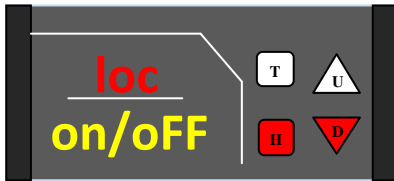


When finished adjustment,
press **H** button to “save” adjusted value.

Recommended temperature and Humidity values for different species are given at page 24

Note: PD series models are not equipped with humidifier but humidity set point must be adjusted to desired level to get high / low humidity alarms.

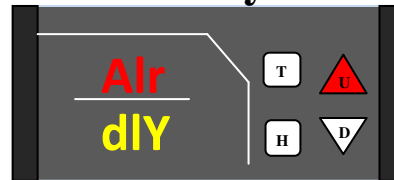
To Lock Screen on/off



When main screen is active,

Press **H+D** buttons together / 3s
to lock and unlock screen

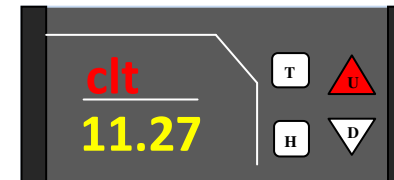
Alarm delay



When main screen is active,

keep pressed **U** button / 3s
Voice alarm will be delayed
15 minutes.

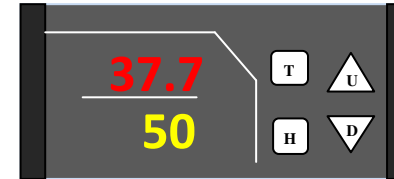
Remaining time for next cooling



When main screen is active,

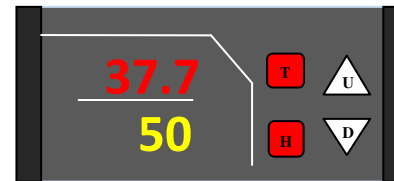
Press **U** button and release to check
remaining time for next cooling

*Note: remaining time to next cooling will appear
if periodic cooling function on
(pls check APC menu. (See page 17)*



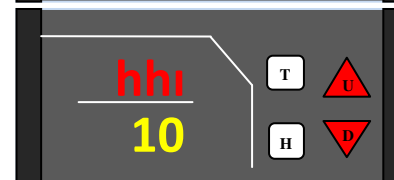
Then screen turns back to main screen.

User Menu Parameters



-Press T + H together / 3s to enter the menu

-Use T / H buttons to pass next/before parameter.
-Use U / D buttons to change parameter values.



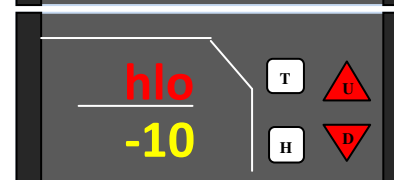
hhi: high humidity alarm.

Started : set value +10

Delay time: 20 minutes

Notification: Alr 5

Voice alarm : continuous



hlo: low humidity alarm.

Started : set value -10

Delay time: 20 minutes

Notification: Alr 6

Voice alarm : intermittently



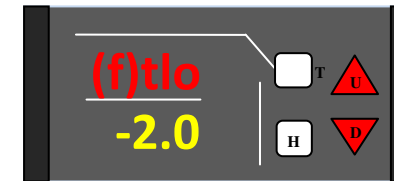
(f)thi: high temperature alarm.

Started : set value + 0,8

Delay time: 2 minutes

Notification: Alr 1/3

Voice alarm : continuous



(f)tlo: low temperature alarm.

Started : set value - 2.0

Delay time: 30 minutes

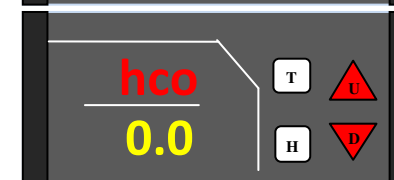
Notification: Alr 2/4

Voice alarm : intermittently



tco: temperature calibration value.

CAUTION! tCo is very critical parameter and changing this can results with chick looses. pls use qualified and calibrated glass or electronic thermometers for calibration purpose. And always check temperature values periodically.



hco: humidity calibration value.

CAUTION! hCo is very critical parameter and changing this can results with chick looses. pls use qualified and calibrated glass or electronic thermometers for calibration purpose. And always check humidity values periodically.



-Press T + H together / 3s to save changes.

Humidity Adjustment

Humidity adjustment in incubators is for **providing adequate water loss from eggs**. And also **high humidity levels for last 2-3 day** are also very important. Egg needed to lose between 13-16 % water depending on the species during incubation period. Weighing of eggs during incubation is most trustable method to find proper humidity needed to good hatching results for particular poultry species.

Different from temperature, short term humidity changes during incubation are not important. Providing an average humidity in desired level during all incubation period is enough to achieve good results. However, high humidity levels during hatching period (last 2-3 day) is very important. When the chick started to hatch, inner membrane of egg dries quickly. This makes membranes harden and chick can stick to shell. To prevent drying of membranes, humidity must be adjusted to high levels depending on species for last 2-3 day of incubation.

Cabinet humidity value can be adjusted by water channels. Humidity values are shown in control panel digitally. Humidity levels directly result of **water surface area in base**. PD models have different size of water channels to adjust humidity at desired level.



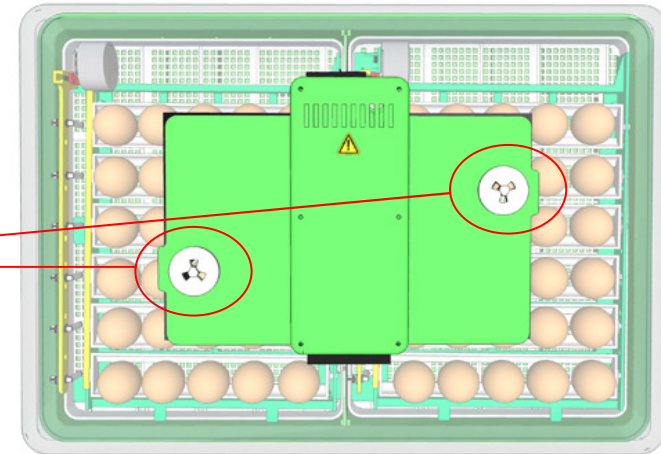
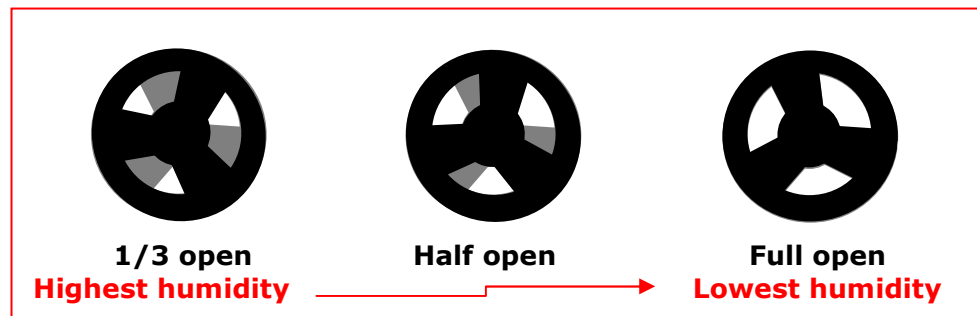
CAUTION! Never fill humidity trays with cold water. Use warm water close to incubator temperature set point. Ideally 25-35 °C

Don't forget that humidity values depend on temperature values, always check humidity values at temperature set point.

You could not decrease humidity below a point and could not increase above a point . This low and up limits depend on humidity level of your incubation room.

Air out vents can also be used for humidity adjustment

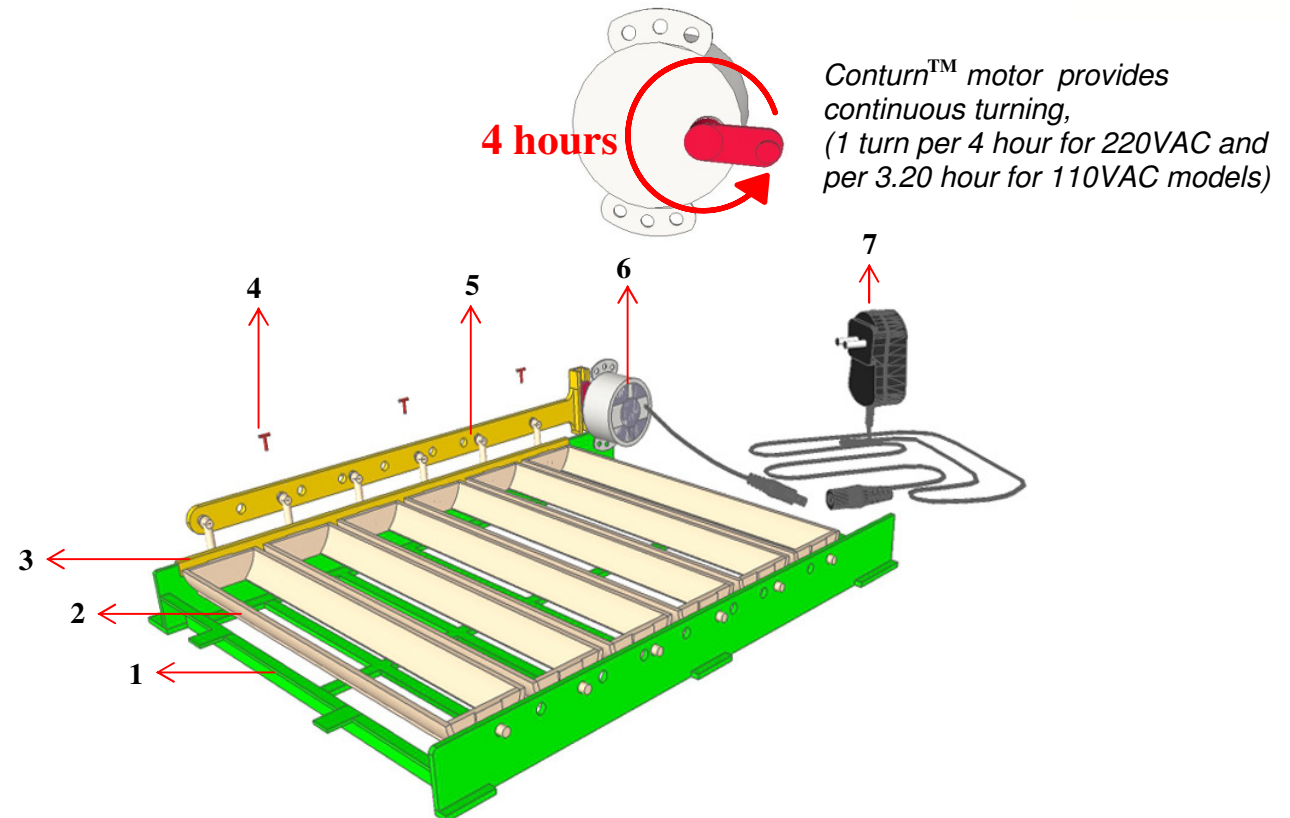
Air out vents



CAUTION! Never close air-out vents more than 1/3.
CAUTION! Air -out vents should be fully open during hatching period.

Egg Turning / Conturn™ 30

1	Conturn™30 base
2	Conturn™ Egg Rack
3	Rack fixing bar
4	Rack fixing pins
5	Main turner bar
6	Conturn™ Motor
7	Conturn™ Adapter



Conturn™30 Adjustment

Conturn™30 comes with 6 rack installation in standard, if you have bigger eggs than chicken eggs, racks must be adjusted.

- Remove the rack fixing bar(3) and pins(4).
- Remove main turner bar(5) from motor
- Adjust the egg racks(2) for your egg size .
- Fix main turning bar(5) to motor arm and racks.
- Fix the rack fixing bar(3) and pins(4).

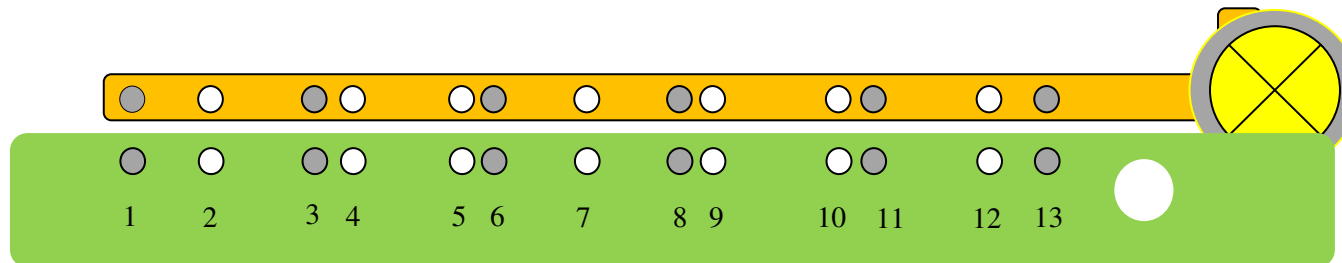
CAUTION! It is important that Conturn™30 trays must be settle truly. Before connecting Conturn™30 to power, be sure that channels are in same angel.

PD SERIES



Conturn™30 base and main turner bar have holes for adjustments of channels. In standard, it comes with 6 channels. It can be used for hen and smaller eggs without any change.

Conturn™30 has 13 holes shown below.



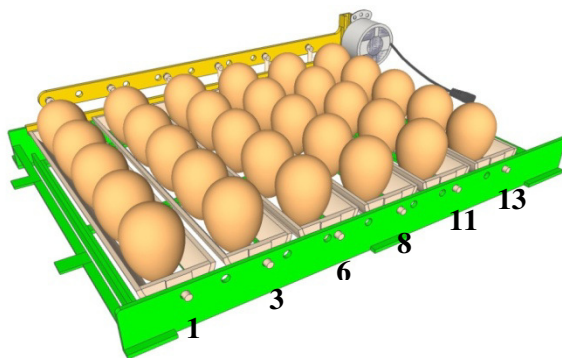
Use hole numbers given above to adjust tray for your egg size.

CAUTION ! Channels must be adjusted for biggest size egg that you will set.
Never set big eggs that can fall down during turning.

6 pc- Standard Rack

Chicken or smaller eggs

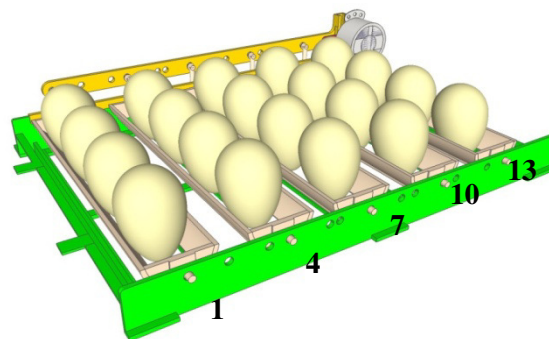
Hole no: 1-3-6-8-11-13



5 pc- Standard Rack

Big Duck / Turkey

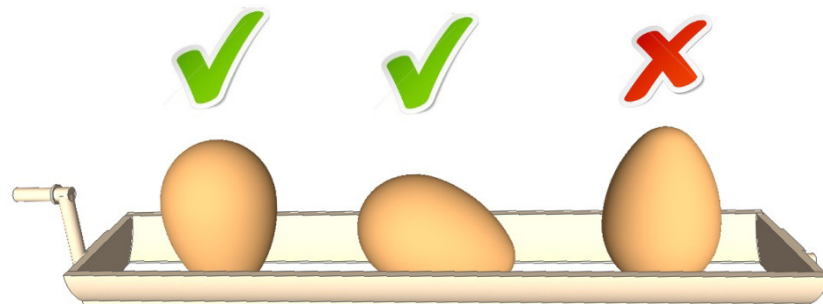
Hole no: 1-4-7-10 -13



EGG CAPACITIES

	9 quail egg x 6 rack
	7 partridge egg x 6 rack
	6 pheasant egg x 6 rack
	5 chicken/duck egg x 6 rack
	4 turkey/big duck egg x 5 rack

CAUTION ! Never set eggs on the position small end top. Eggs must be set small end down or horizontal.

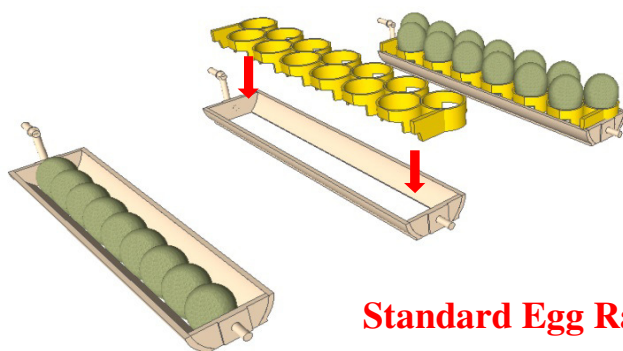


QT13

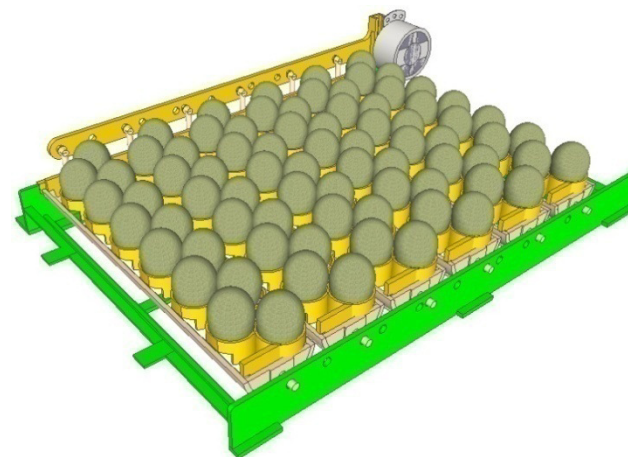


QT13- Quail Egg Tray (optional)

Standard egg rack holds 9 pc quail egg, QT13 quail rack are placed directly onto the standard channel and holds 13 quail eggs in one rack and help you to place smaller size quail eggs than normal.



Standard Egg Rack

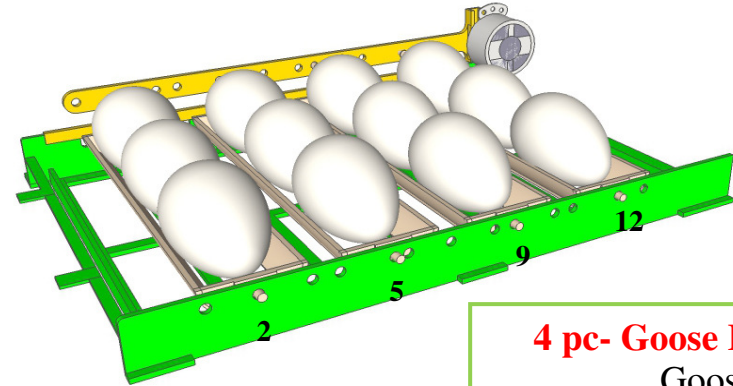
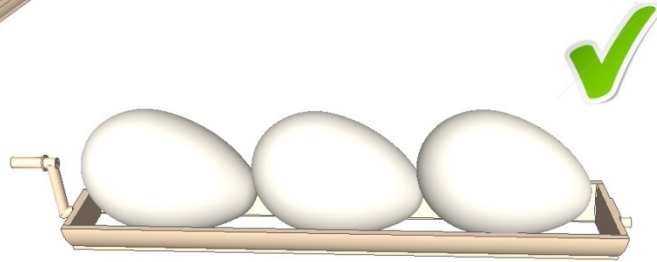


GT03



GT03 – Goose Egg Rack (optional)

GooseEgg Rack has been designed for large goose eggs. Goose eggs must set racks as horizontal position, small end a bit lower about 10 degree. This helps chicks for easy hatching. And periodic cooling of goose eggs is advisable.



4 pc- Goose Egg Rack
Goose
Hole no: 2-5-9-12

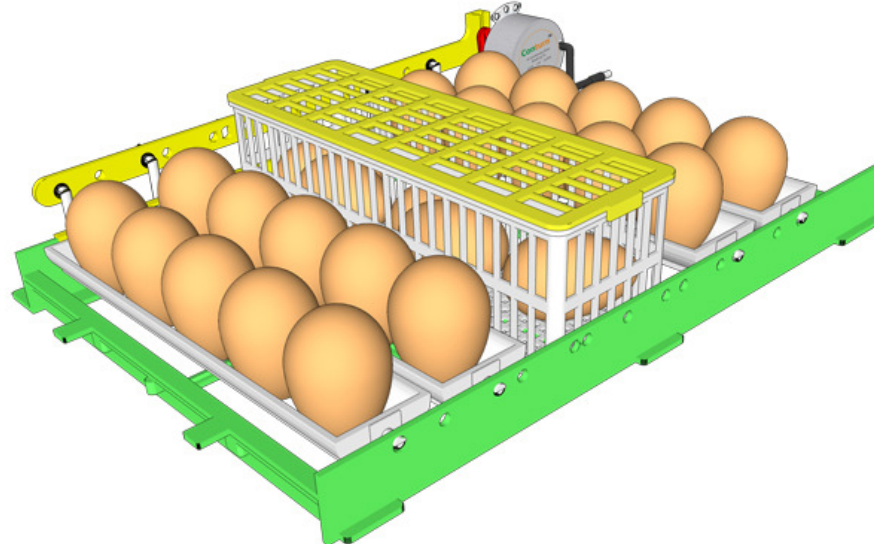
CS6



CS6 – Hatchery Basket (optional)

CS6 hatchery baskets give chance to user partial settings to Conturn™30. Between egg settings must be min 5 day.

Example: 5 chicken egg setting every 5 day.



Active Periodic Cooling (APC)

CAUTION! Active periodic cooling function is for professional users. If needed please take assistance from your dealer. Results can change depending on poultry species, egg sizes, room conditions...etc. Inappropriate, long time of periodic coolings can result with late hatching and chick losses.

In natural incubation, most birds leave the nest for a period of time, at least one time after first week of the incubation. Eggs cool and dehumidify for this period. **Active periodic cooling (APC)** lets user to mimic this natural behavior in artificial incubation.

Last researches show that periodic cooling of goose, duck and even chicken eggs during incubation has positive effects in hatch rates and chick quality. Especially periodic cooling is very important for most of goose types. Without periodic cooling hatch rates can decrease up to 20-30% in goose egg incubation. Most breeders make cooling action manually by taking eggs out of the incubator, cool in hatchery room conditions and spray eggs with warm water and then place eggs to the incubator again.

Cimuka presents Active Periodic Cooling (APC) function with 2 different modes as **“cooling for a time (clt)”** and **“cooling for a set (cls)”**. Both modes have been designed to simulate natural behavior.

Cooling for a time (clt) mode cuts the heater and humidifier power (for models with humidifier) for an adjusted time and system turns to standard working conditions. Temperature / humidity alarms are off during cooling.

Cooling for a set (cls) mode cuts the heater and humidifier power (for models with humidifier) and drops temperature up to an adjusted set point. It keeps the temperature at this point for an adjusted time then turns to standard working conditions. Temperature and humidity alarms are off during cooling.

For both modes the system has;

Humidification option (for models with humidifier) just before cooling finished with adjustable parameters; humidification time and max humidity.
fan assistant cooling option (for models with cooling fan) to reach desired cooling temperature faster.

Cimuka's advanced incubator controller lets user to change all parameters with Active Periodic Cooling (APC) menu to try and achieve best hatch rates for different poultry species' eggs.

37.7 50	T H	U D
cIF oFF	T H	U D
cb coF	T H	U D
cPr 24	T H	U D
cSt -8.0	T H	U D
FSt -15.0	T H	U D
cth 30	T H	U D

-Press U + D together / 3s to enter the menu

-Use T / H buttons to pass next / before parameter.
-Use U/D buttons to change parameter values.

cIF: Active Periodic cooling(APC) function activation.

oFF: Active Periodic Cooling is deactivated.

clt: "cooling for a time" mode. Stops heater and humidifier for "hct" time. (check hct parameter)

clS: "cooling for a set" mode. Stops heaters and humidifier up to a adjusted temperature set point and keep temperature at this point for an adjusted time. (check cSt/FSt)

cb: Active Periodic cooling Starting.

con: first cooling starts immediately after save the menu.

coF: first cooling starts after periodic cooling cycle (cPr)

cPr: Periodic cooling cycle time(hours)

6-8-12-24-48-72 hours selectable.

System repeats cooling in this cycle.

cSt: cooling set point (for C display models)

cooling set value: temperature set point – cst (- 8 C)

note: cSt is only active in clS mode on C display models

Example: for a system working on 37.7 C, system cools up to 29,7 C (37,7 – 8.0)

FSt: cooling set point F. (for F display models)

cooling set value: temperature set point – FSt (-15 C)

note: FSt is only active in clS mode on C display models

Example: for a system working on 99.8 F, system cools up to 84,8 F (99,8 – 15.0)

cth: waiting time in cooling set point.(minute)

Waiting time of system in cooling set point

cth is only active in clS mode

hct 180	T H	U D
chu on	T H	U D
cht 10	T H	U D
chh 80	T H	U D
cFn on	T H	U D
SAVE donE	T H	U D
>Cool< 42	T H	U D

hct: max cooling time (minute)

Heater /humidifier cut off time for clt mode.

Maximum cooling time for clS mode.

chu: humidification activation during cooling (only for models equipped with humidifier)

on: humidification activated

oFF: humidification deactivated

cht :Humidification time in cooling (minute) (only for models equipped with humidifier)

Humidification will start before cooling finished for cht time.

Example. If cooling will finish within 30 minutes.

Humidification starts after 20 minute(30-10). (see page 21)

chh : max humidification set in cooling(RH%) (only for models equipped with humidifier)

Humidifier works up to this set and keeps incubator in this point during humidification period.

cFn : cooling fan activation

(only for models equipped with cooling fan)

On: cooling fan is activated during cooling.

OFF: cooling fan is deactivated during cooling.

-Press T+ H together / 3s to save the changing's.

During cooling, "cool" blinks on up screen,

CAUTION! don't cut the power of incubator during cooling. Power cut will terminate cooling but the time for cooling period will continue.

Unfortunately, the best hatch rates can be reached with which parameter combination is not known for different species yet. But Cimuka Research Team is collecting data from our research center and customers for different APC application results and advises below details for Cooling for a Set (cIS) mode.

Note: Cooling by a time (clt) mode is highly dependent on hatchery room conditions and the loaded egg amount in the model and only advisable to use for temperature controlled hatchery rooms to reach same hatching results.

Active Periodic Cooling (APC) Parameters	Display	Factory settings	Chicken	Duck	Goose
Cooling mode	cIF	oFF	cIS On at 8th day Off at 19th day	cIS On at 8th day Off at 25th day	cIS On at 8th day Off at 27th day
Cooling start time	cb	cof	con	con	con
Cooling cycle time	cPr	24 h	24	24	24
Cooling set point C (set –adjusted data)	cSt	-8.0 C	-8.0	-8.0	-8.0
Cooling set point F (set –adjusted data)	FSt	-15.0 F	-15.0	-15.0	-15.0
Waiting time in cooling set point	cth	20 min	10 min. 8th to 13th 20 min. 14th to 18th	10 minutes 8th to 15th 25 minutes 16th to 25th	10 min. 8th to 14th 20 min. 15th to 21th 40 min. 22th to 27th
Max cooling time	hct	120 min.	120 min.	150 min.	180 min.
Humidification*	chu	on	-/on	on	on
Humidification Time*	cht	10 min.	10	15	15
Max humidity during humidification*	chh	80 RH%	80	80	80
Cooling fan activation**	cFn	on	on	on	on

* only for models equipped with humidifier

**only for models equipped with cooling fan

CAUTION! Don't forget to off Active Periodic cooling function during hatching period. Cooling in last 2-3 days of incubation results with bad hatching rates and chick loses.

CAUTION! Changing cooling mode (cIF) or cooling cycle time (cPr) parameters in APC menu resets periodic cooling cycle time (cPr).

CAUTION! In cIS mode, time to reach cooling set point cSt (Fst) is highly dependent to room temperature. For very low set points, system could not reach cooling set point. For such situations, system finalizes cooling at max cooling time (hct).

Active Periodic Cooling (APC) function behavior at “cooling for a set (cIS)” mode given in the graph for below parameters .

APC Parameters	Display	settings
Cooling mode	cIF	cIS
Cooling start time	cb	on
Cooling cycle	cPr	24 h
Cooling set point C (set –adjusted data)	cSt	-8.0 C
Cooling set point F (set –adjusted data)	FSt	-15 F
Waiting time in cooling set point	cth	20 min
Max cooling time	hct	120 min
Humidification*	chu	on
Humidification Time*	cht	10 min.
Max humidity during humidification*	chh	80 RH%
Cooling fan activation**	cFn	on

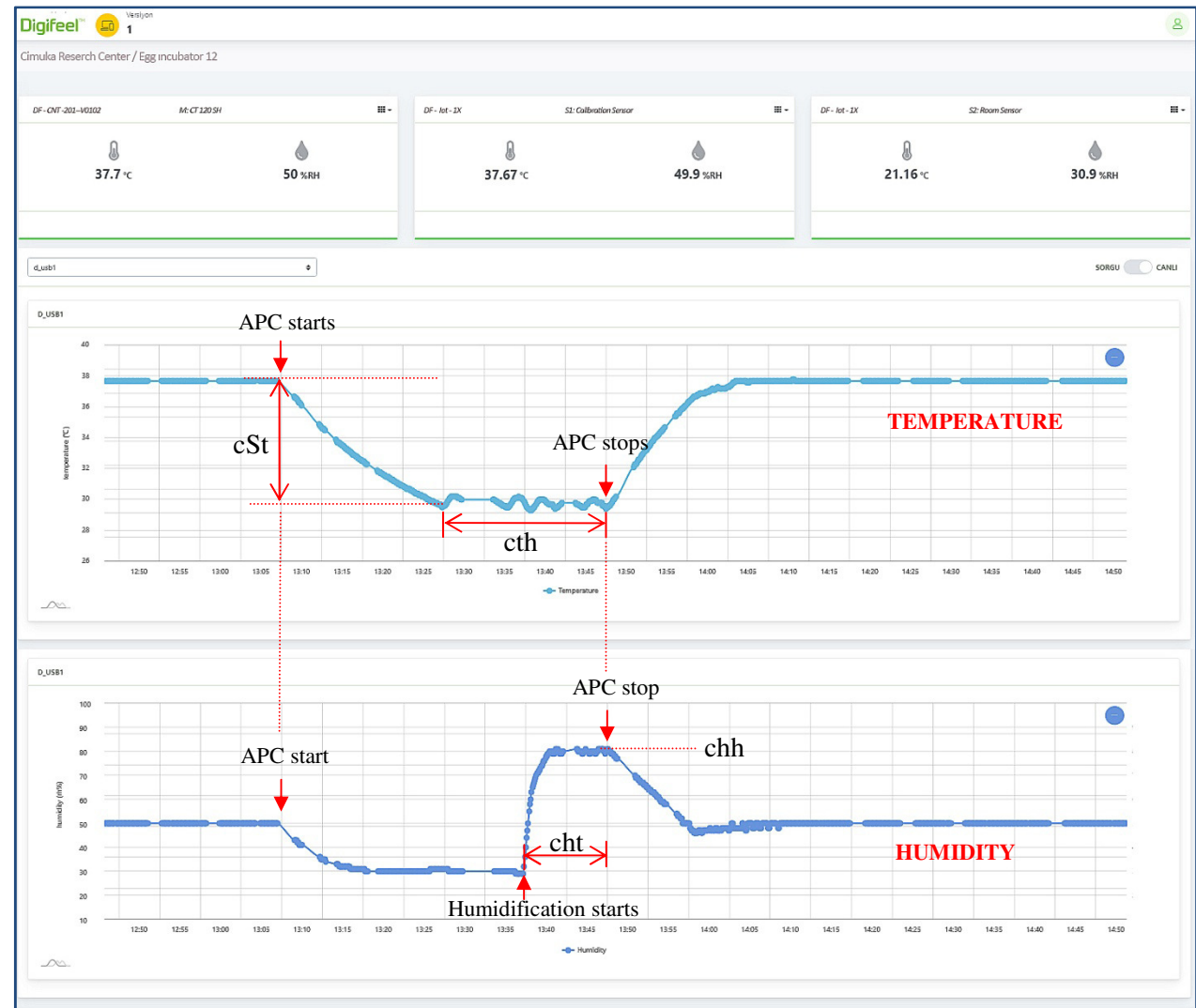
* only for models equipped with humidifier

**only for models equipped with cooling fan

System repeats APC behavior every cPr time.

In a power cut, cooling cyle time cPr is not reset, continue from last recorded time. As an example, if there is an 1 hour power cut, the next cooling time will delay about 1 hour.

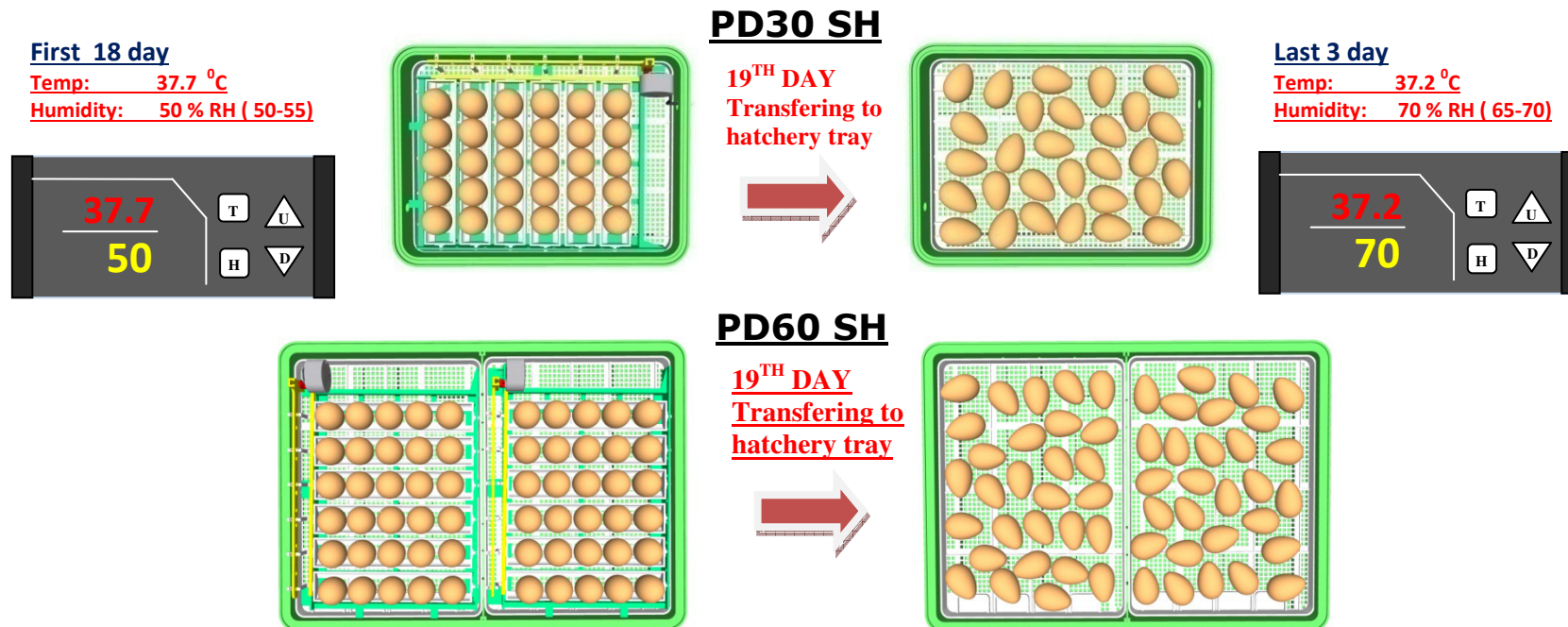
Remaining time to next cooling can be checked by the controller (see page 9)



Setting and Hatching

Eggs must be hold in Conturn30 up to the last 2-3 day of incubation and then transferred to hatchery basement for last 3 day of incubation. Eggs are placed to hatchery tray at horizontal position freely. **Don't forget to change temperature/ humidity values last 2-3 day of incubation.**

Example : Chicken Egg (incubation time 21 day)

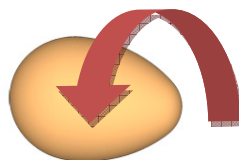


- Eggs of different species which have different incubation time can set together by adjusting the transfer date to the same day.
- PD30SH model with optional CS6 hatchery basket and PD60 SH model can be used by setting partially. **Between 2 set must be min 5 - 7 day.** During last 2-3 day of incubation, always keep temp / humidity set values at hatchery values even you have eggs in setting period.

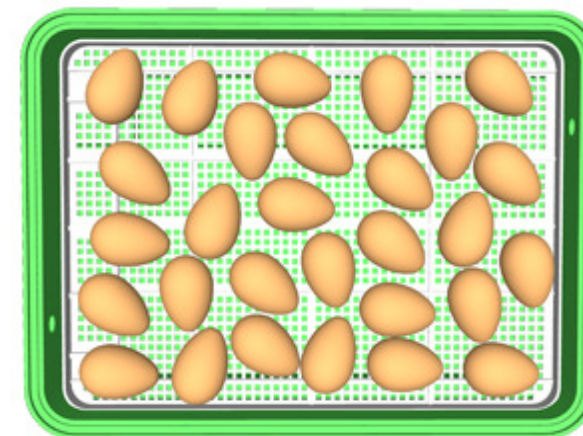
PD30 H / PD60 H manual turning

PD series incubators without Conturn™30 can be used for last 3 day of incubation as a hatcher or can be used for all incubation period by manual turning.

180 degree manual turning should be done min 3 - 4 times in a day up to last 3 day



180°



Incubation Records

Incubation records are very important to identify performance and also problems of incubation.

Name of species, setting date, transfer date, hatching date, number of egg set, number of fertile egg, number of chicks, % hatchability, can be recorded for future reference. Eggs must be controlled for fertility, early and late dead identification.

%hatchability can change for different species. Hatchability can be calculated by dividing number of chicks to number of fertile eggs.

Sample table (Quail incubation time 17 day, chicken incubation time 21 day.)

Species	Date of			Number of			Hatchability %	Notes Hatching times, Early, middle and late deaths, problem in chicks
	Set	Transfer	Hatching	Eggs	fertile eggs	chicks		
Quail	1.1.2000	15.1.2000	18.1.2000	25	20	19	95	16-17 day hatch, 1 early death
Hen	5.1.2000	23.1.2000	26.1.2000	5	4	4	100	20-21 day hatch, no death

Cleaning Up and Service

Caution! Disconnect the incubator from electric supply during cleaning or service.

Caution! Service and spare part changings must be carried out only by a qualified person.

Internal parts of cabinet and egg trays must be cleaned after every hatch with a proper sanitary solution. Apply recommended sanitation methods and chemicals for cleaning.

Caution! Never use water higher than 50 C for cleaning. Electrical parts of machine must be kept dry during cleaning.

If you are using your model seasonally, after egg season have finished, clean your incubators and keep it open to dry all parts for min 1 day. For control panel and fan panel cleaning, use dry soft brush and alternatively vacuum cleaner.

Always check inside temperature and humidity of your model periodically with a high quality calibrated glass or electronic thermometer. if needed. carry out a proper calibration procedure.

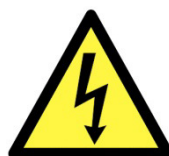
Egg Incubation is a continuous work. Please keep your model in your control. Cimuka or sale agents will not be held responsible for any loss of eggs or chicks under any circumstances. Almost all parts of Cimuka incubators have easy spare changing and plug and play features. Always keep critical parts as spare. For your spare part and service needs, contact with your dealer.

Safety Labeling



RISK OF ELECTRIC SHOCK!

ALWAYS OPERATE YOUR EGG INCUBATOR WITH GROUNDED POWER SOCKET. NEVER ATTEMPT TO TOUCH OR SERVICING UNLESS THE MACHINE IS DISCONNECTED FROM THE MAINS ELECTRICITY SUPPLY. Connections inside of fan panel at main voltage.



RISK OF ELECTRIC SHOCK!

NEVER ATTEMPT ANY KIND OF SERVICING UNLESS THE MACHINE IS DISCONNECTED FROM THE MAINS ELECTRICITY SUPPLY. The cables, heater and fan are at main voltage.



RISK OF BURN! HOT SURFACE. DON'T TOUCH

NEVER ATTEMPT TO TOUCH THE HEATHER INSIDE OF VENTILATION PANEL. THE MACHINE IS DISCONNECTED FROM THE MAINS ELECTRICITY SUPPLY AND WAIT MIN 5 MINUTES.



RISK OF INJURY! KEEP HANDS AND FINGERS AWAY.

NEVER ATTEMPT TO TOUCH OR SERVICING FAN UNIT UNLESS THE MACHINE IS DISCONNECTED FROM THE MAINS ELECTRICITY SUPPLY.

Factors Effecting Hatchability

- Incorrect incubation settings.
- Turning problems.
- Very low or very high incubation room temperature.
- Inadequate room ventilation.
- High egg storage times .
- Electric cut offs.
- Inadequate or wrong sanitary procedures for eggs or machine.
- Very old or very young parents
- Improper or poor parent feeding
- General problems for health of parents
- Illnesses and genetic problems in parents
- Wrong male / female ratio.

Product Information

Typical Egg Capacities	PD30	PD60
Quail	54-78*	108-156*
Partridge	42	84
Pheasant	36	72
Hen/ Duck	30	60
Turkey/ Big Duck	20	40
Goose	12**	24**

*with optional QT13 quail rack

**with optional GT03 goose rack

Power Consumption	PD30	PD60
Max:	60 W	85 W
Average:	25W	30 W
Dimensions(cm)	33 x 45 x 26	46 x 65 x 26
Electric Supply	220-240 VAC 50 Hz	



Used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with you national legislation.

Recommended Incubation Values

Typical incubation periods and recommended temperature / humidity values for the species are given below. *Incubation periods, temperature and humidity values can change for particular species. Please check literature or ask your dealer for information.*

Species	Incubation Period (Day)	Setting Temp.	Setting Humidity	Hatching Temp. (last 2-3 day)	Hatching Humidity (last 2-3 day)
Chicken	21	37.7 C ⁰ / 99,8 F	%RH 50 - 55	37.2 C ⁰ / 99,0 F	%RH 65 - 70
Turkey	28	37.5 C ⁰ / 99,5 F	%RH 50 - 55	37.0 C ⁰ / 98,6 F	%RH 65 - 70
Quail	17	37.7 C ⁰ / 99,8 F	%RH 50 - 55	37.3 C ⁰ / 99,1 F	%RH 65 - 70
Partridge	24	37.5 C ⁰ / 99,5 F	%RH 50 - 55	37.0 C ⁰ / 98,6 F	%RH 65 - 70
Pheasant	24	37.7 C ⁰ / 99,8 F	%RH 55 - 60	37.2 C ⁰ / 99,0 F	%RH 70 - 75
Duck	28	37.5 C ⁰ / 99,5 F	%RH 55 - 60	37.0 C ⁰ / 98,6 F	%RH 70 - 75
Goose	30	37.7 C ⁰ / 99,8 F	%RH 55 - 60	37.2 C ⁰ / 99,0 F	%RH 75 - 80

- During last 2-3 day of incubation, always keep temp / humidity set values at hatching values even you have eggs in setting period.



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