

PETERSIME

Synchro-Hatch



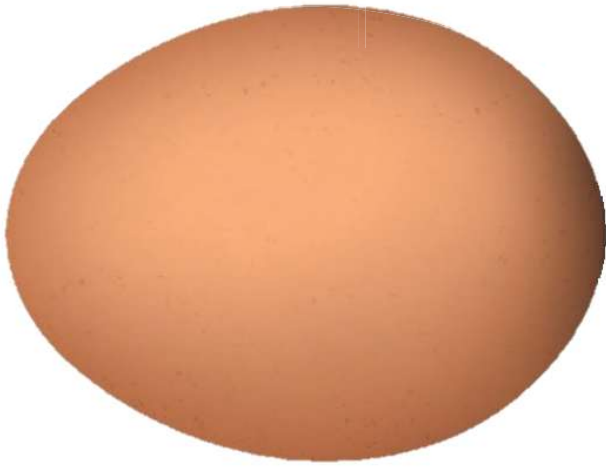
Rui Barros

March 2026



All about the

Hotter



Training Outline





Training Outline

Hatching Principles

CO₂ Controlled

Synchro-Hatch™ Controlled

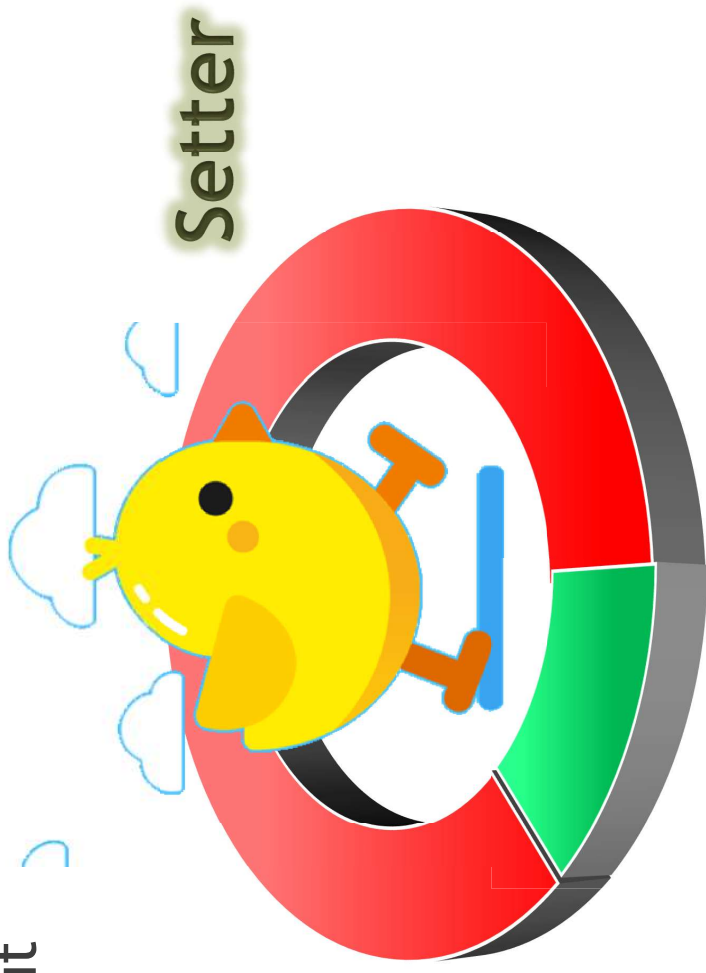
Finetuning Hatcher Program



Hatching principles

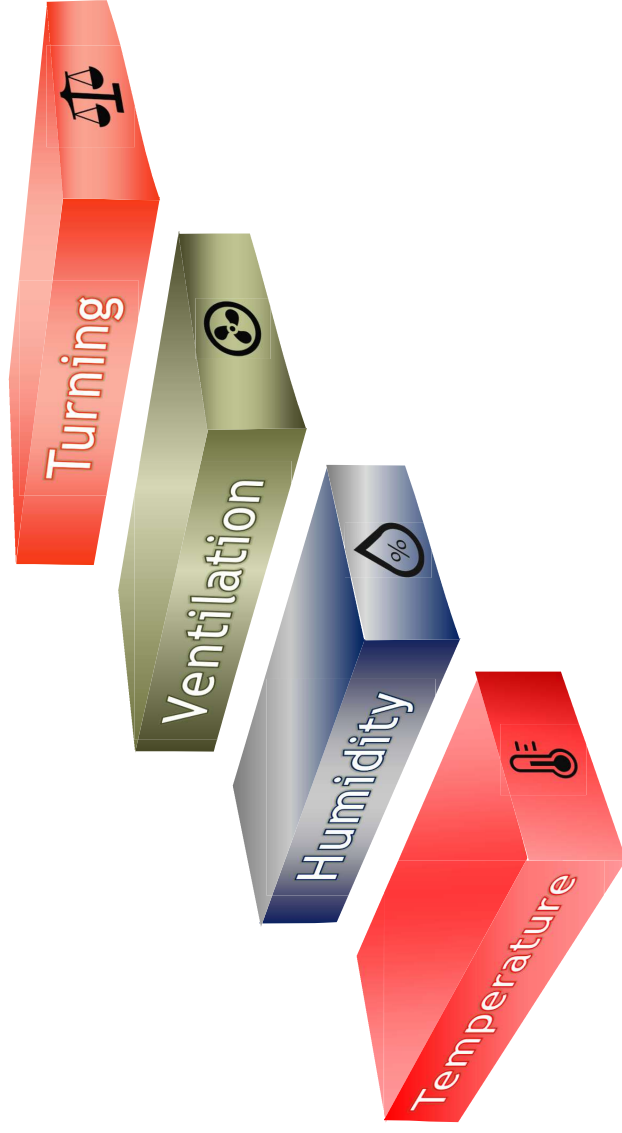
- The hatcher accounts for about 12-14% of the total incubation time.

Hatcher



Hatching principles

- Like the incubator, the hatcher must also provide the optimum embryonic requirements to complete the hatch.





Hatching principles

- An unstable hatcher environment will result in:

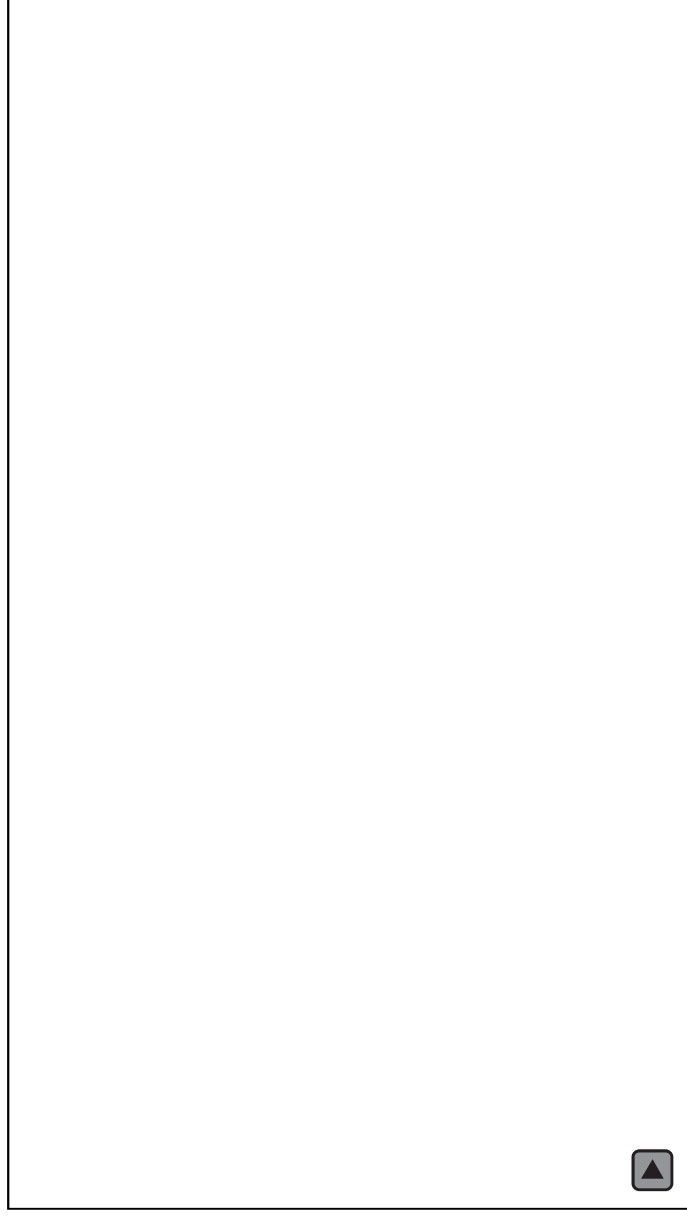


Overall poor chick quality!!

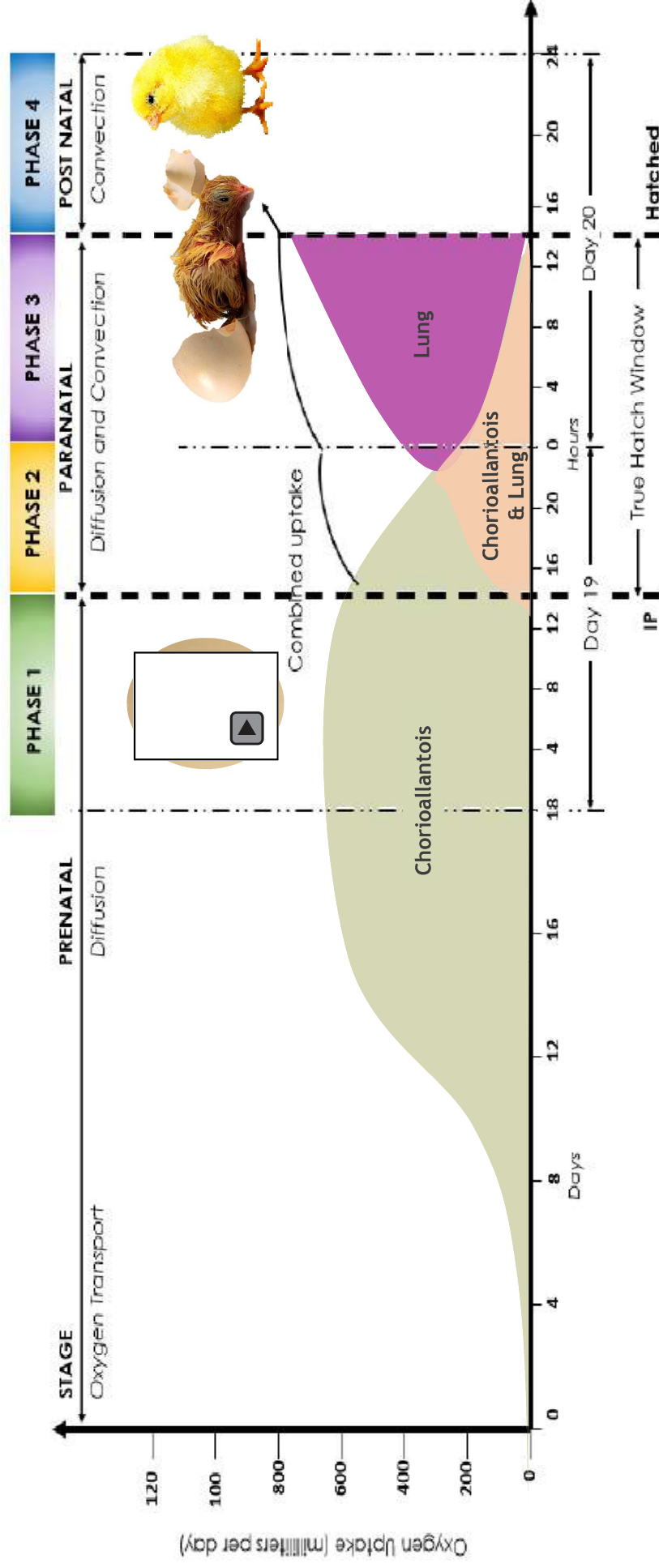
Hatching principles



- Check the mother hen's activity in the nest.

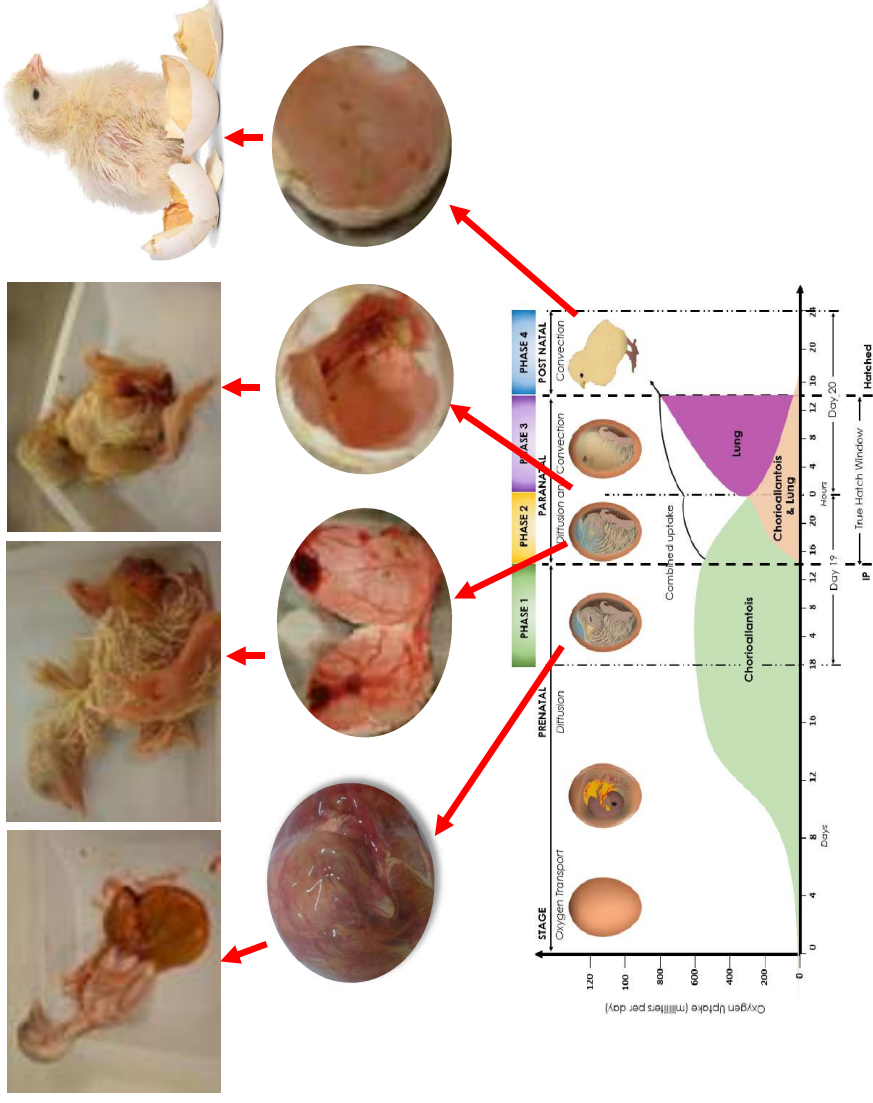


Hatching principles



Hatching principles

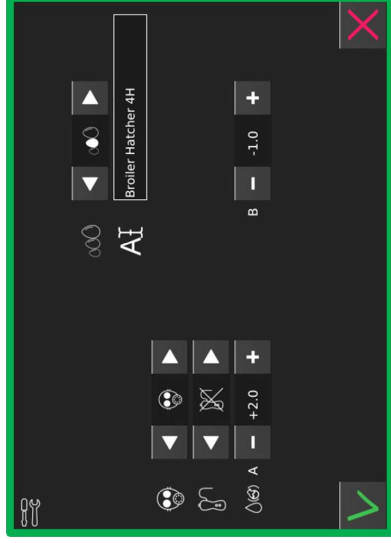
- Important events happening to the chick in preparation for hatching;
- The yolk sac is withdrawn into the chick together with the blood from the chorioallantoic membrane



Hatching principles



- ▶ There are two systems of control in the hatcher program;
 - ▶ CO₂NTROL™ - Humidity Peak
 - ▶ Synchro-Hatch™ - Internal Pipping and Humidity Peak



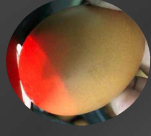
CO₂ Controlled



IP/H/PL			
	18d 00h	0	74.0
IP	19d 16h	0	88.0

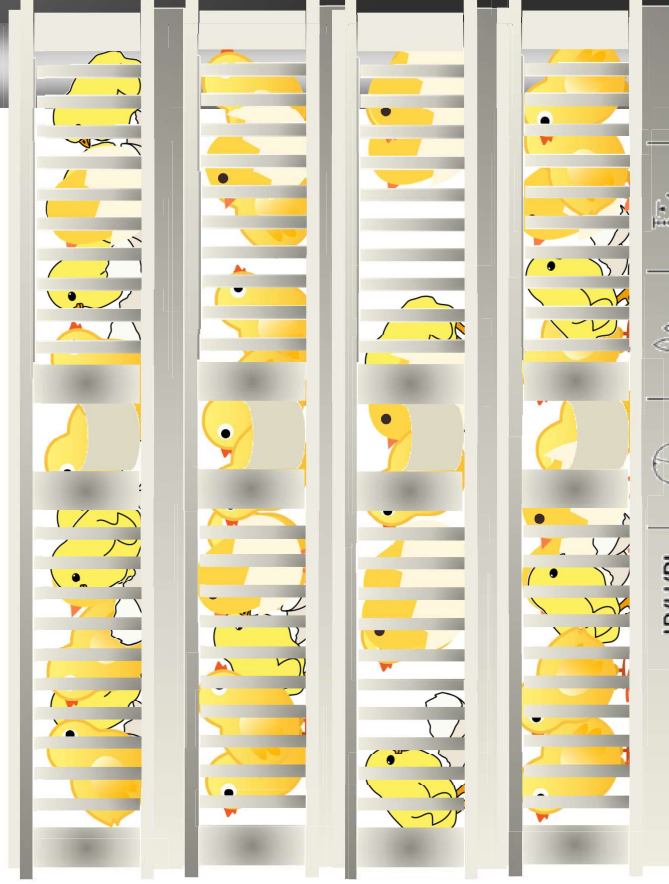
PETERSIME

Rest Peroid



EP

CO₂ Controlled



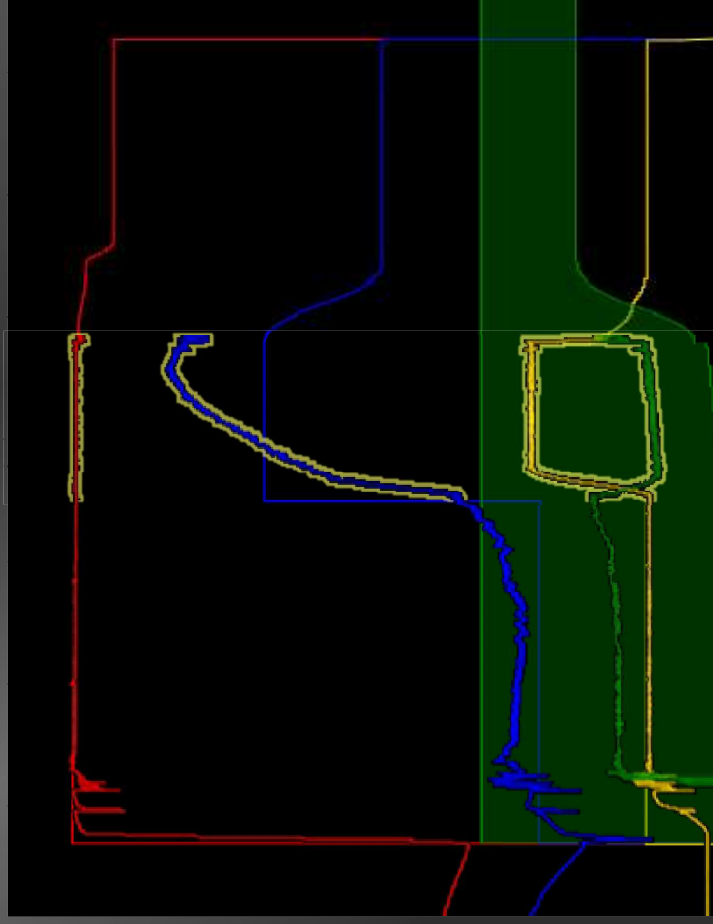
IP/H/PL				
IP	18d 00h	0	74.0	
	19d 16h	0	88.0	
H	20d 16h	0	88.0	

PETERSIME



Rest Period

Hatch



Hatch Detected | 13

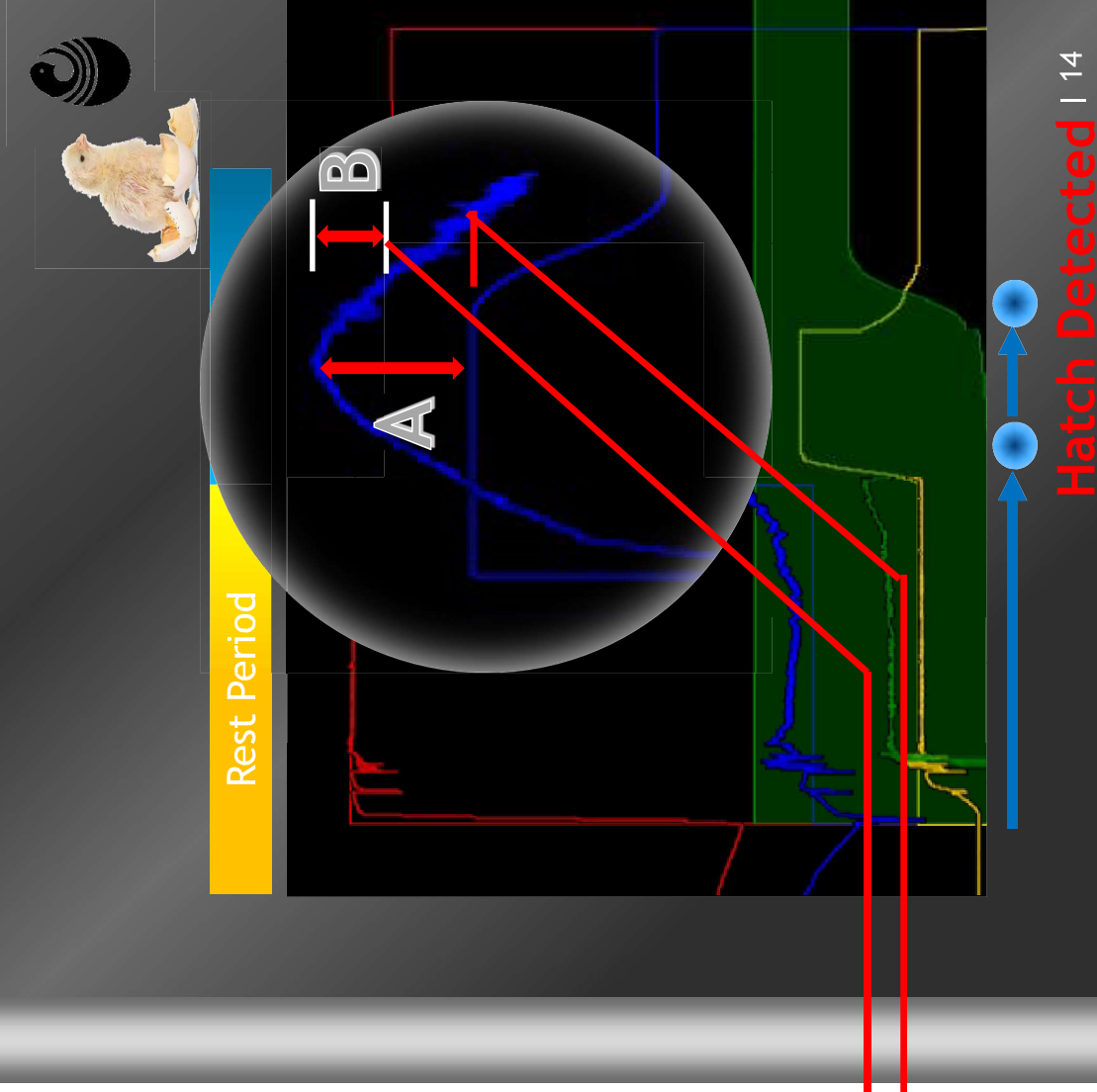
CO₂ Controlled



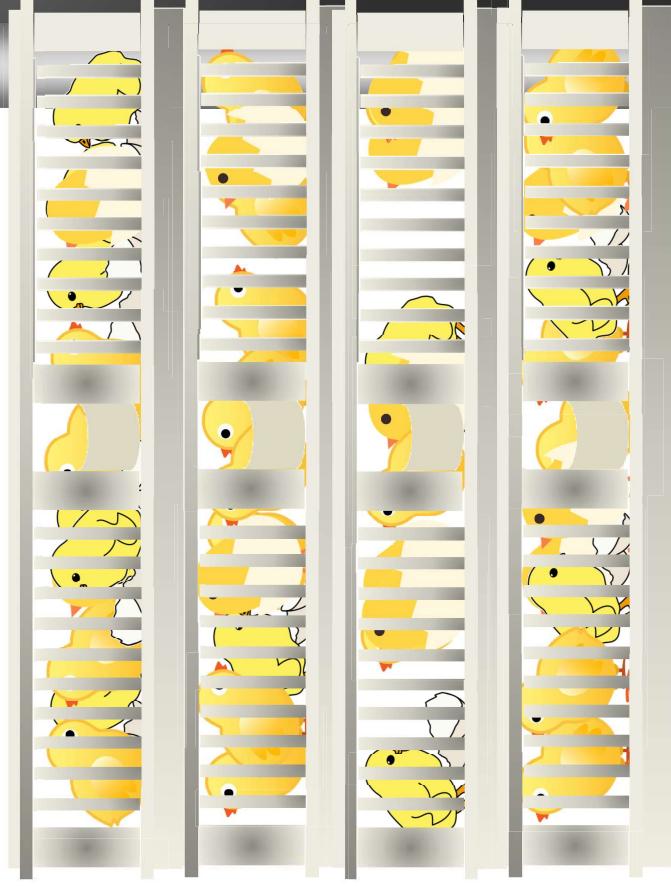
HATCHER NEW PROGRAM

Step	Block ID	D	H	Temp	Humidity	CO ₂
05	02	00	00	100.0	82.0	0
06	02	19	00	99.7	87.5	0
07	03	19	12	98.0	89.0	0
08	03	--	--(1)	98.0	89.0	0
09	03	--	--(2)	98.0	89.0	0
10	03	20	16	98.0	82.0	0
11	02	20	20	98.0	82.0	0
12	02	21	04	97.5	82.0	0

PETERSIME



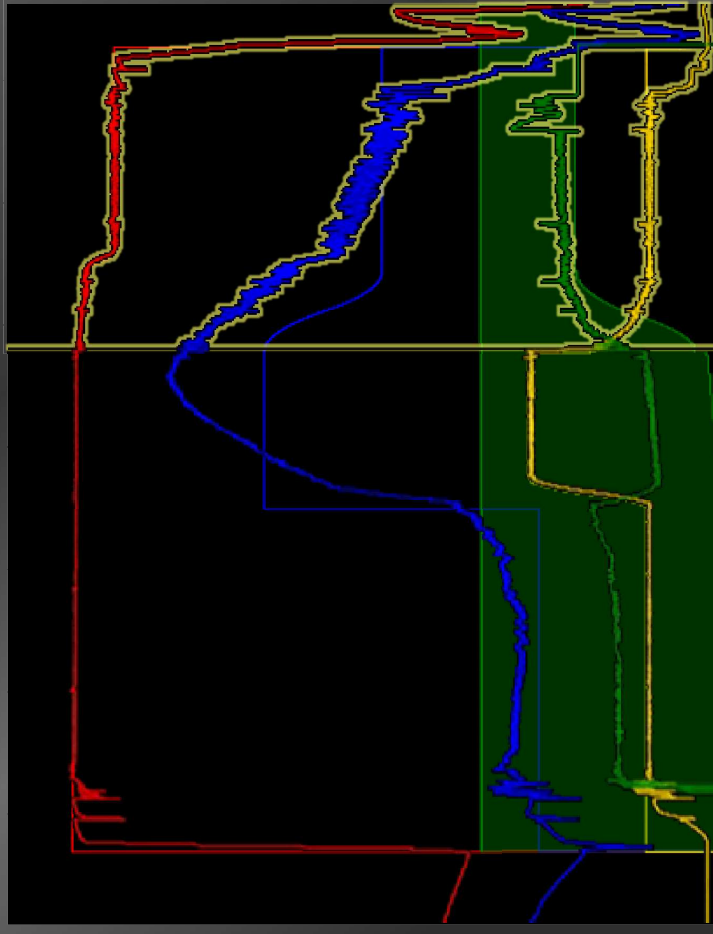
CO₂ Controlled



Rest Period

Hatch

Finishing

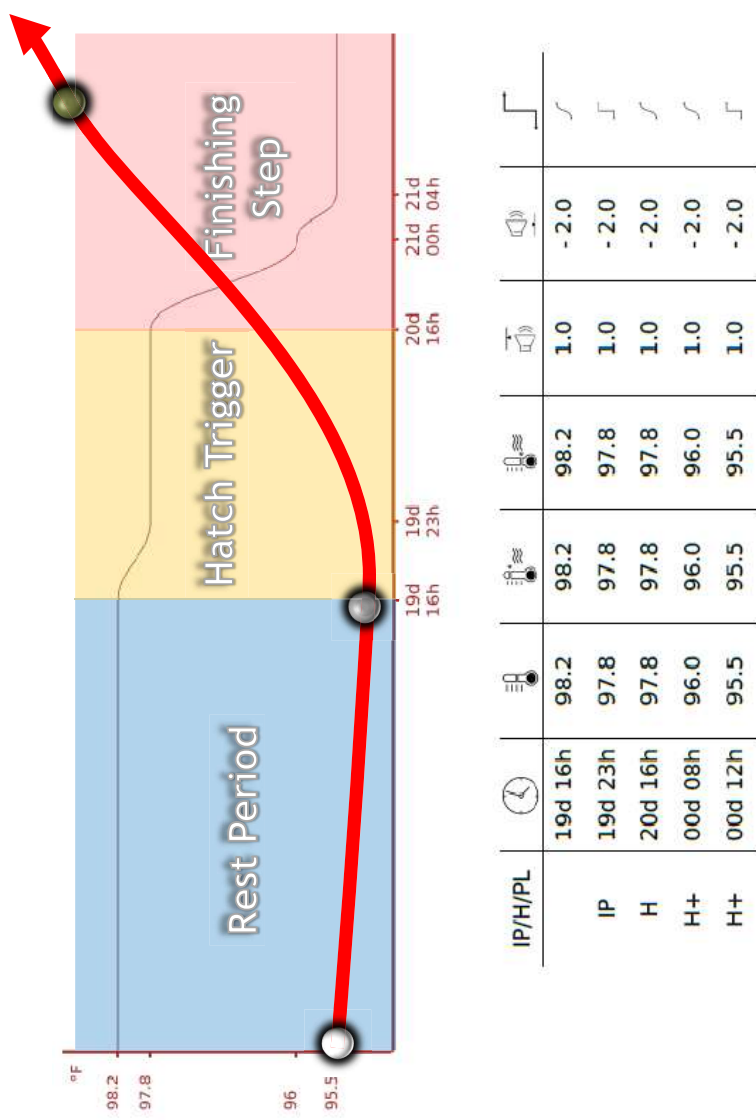


PETERSIME

Hatch Finished

CO₂ Controlled

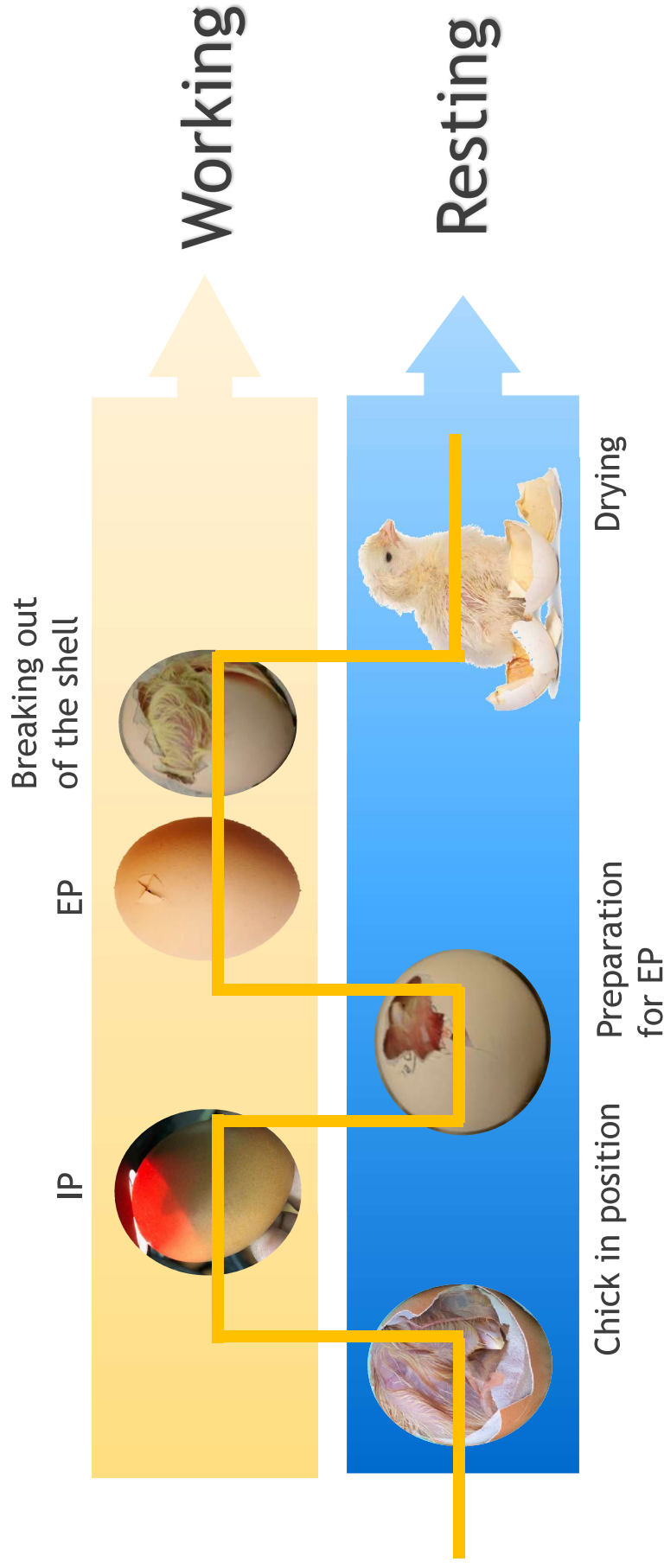
►Temperature



A standard hatchery air temperature program (CO₂ controlled)



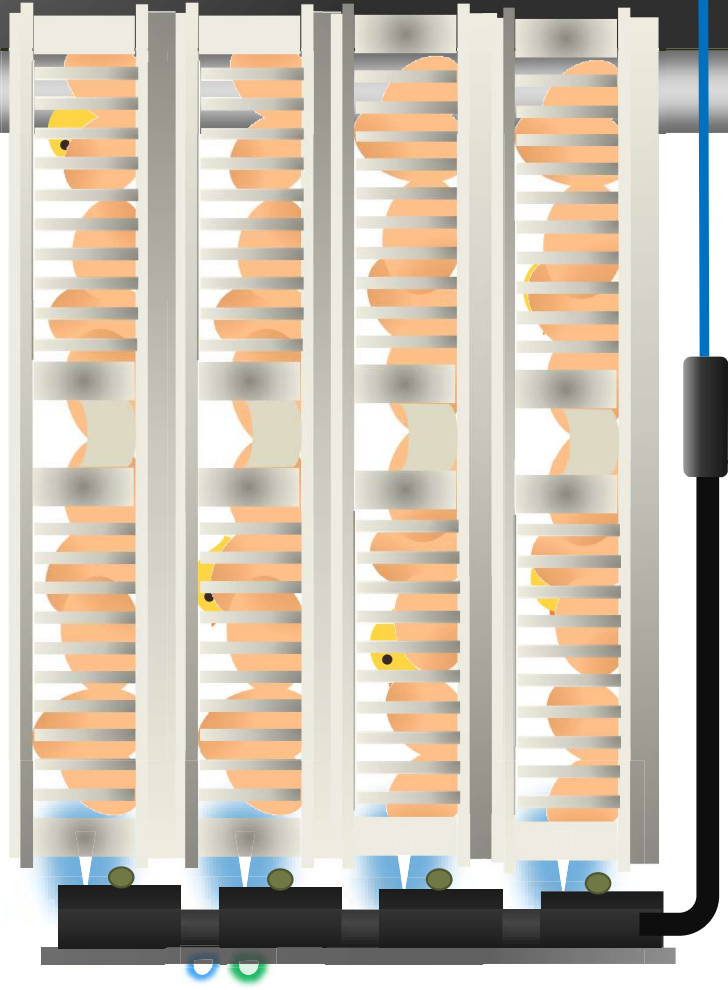
Syncho-Hatch™ Controlled



Synchro-Hatch™ Controlled



Phase 1



IP Detected

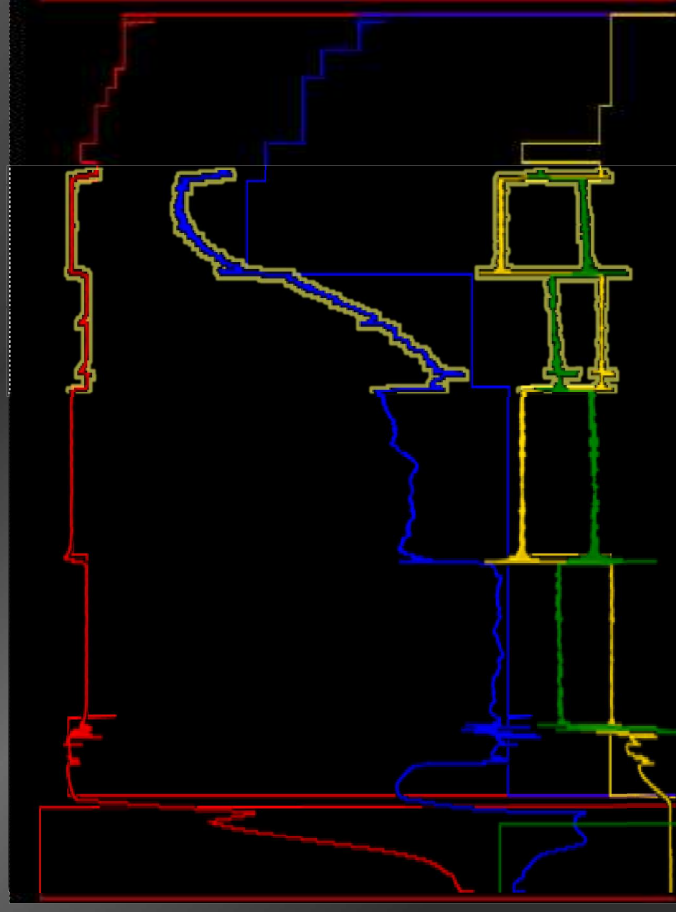
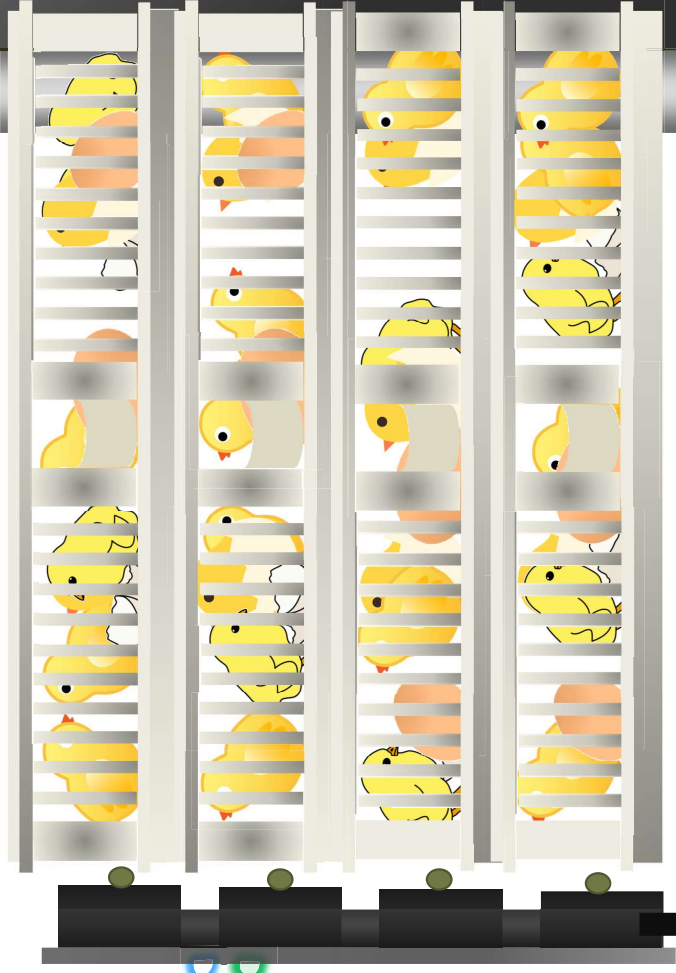
PETERSIME

Synchro-Hatch™ Controlled



Phase 1

Phase 2 & 3



Hatch Detected
| 20

PETERSIME

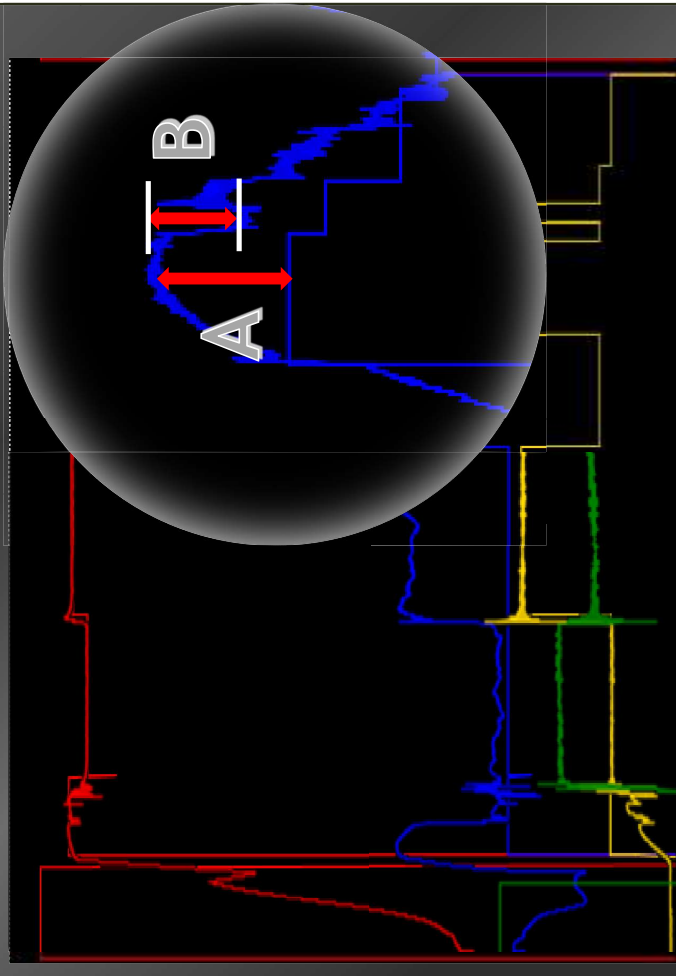
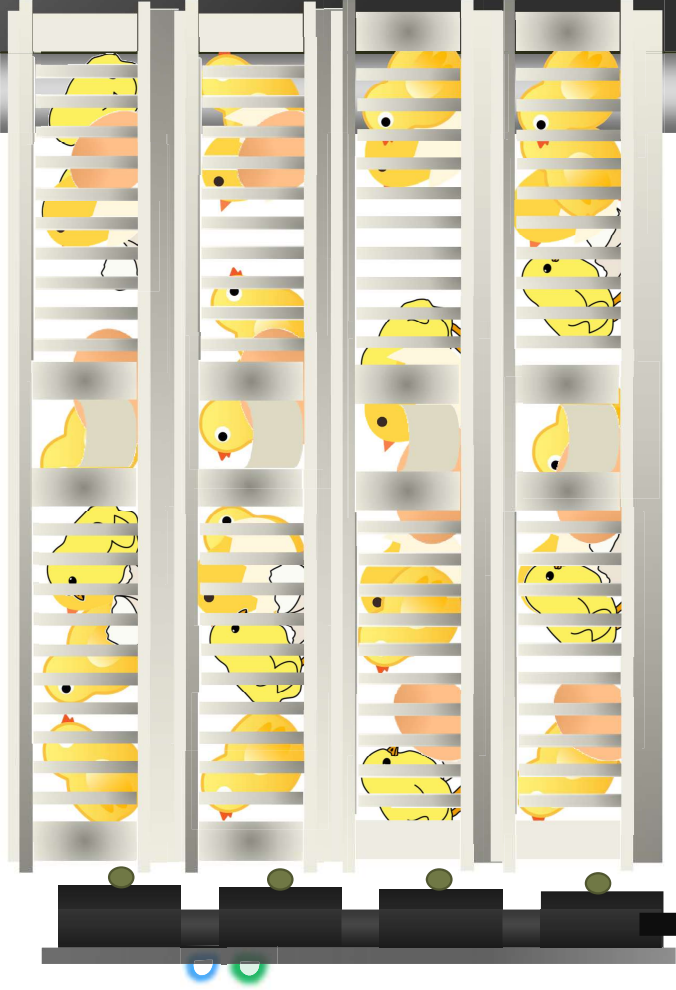
Synchro-Hatch™ Controlled



Phase 1

Phase 2 & 3

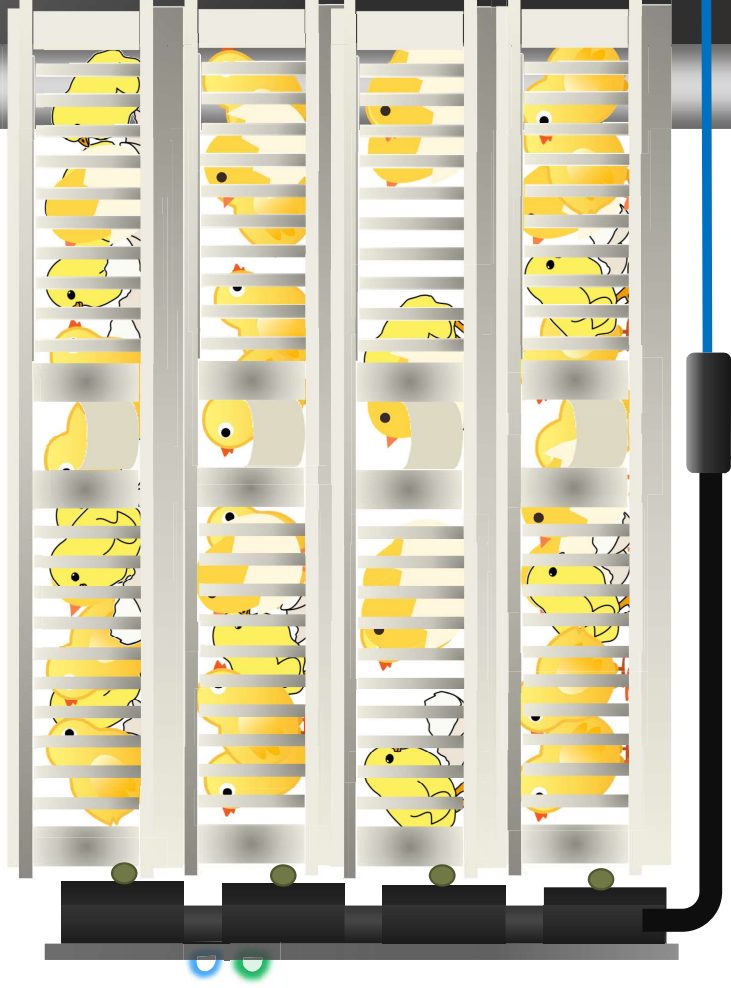
Phase 4



Hatch Detected
| 21

PETERSIME

Synchro-Hatch™ Controlled



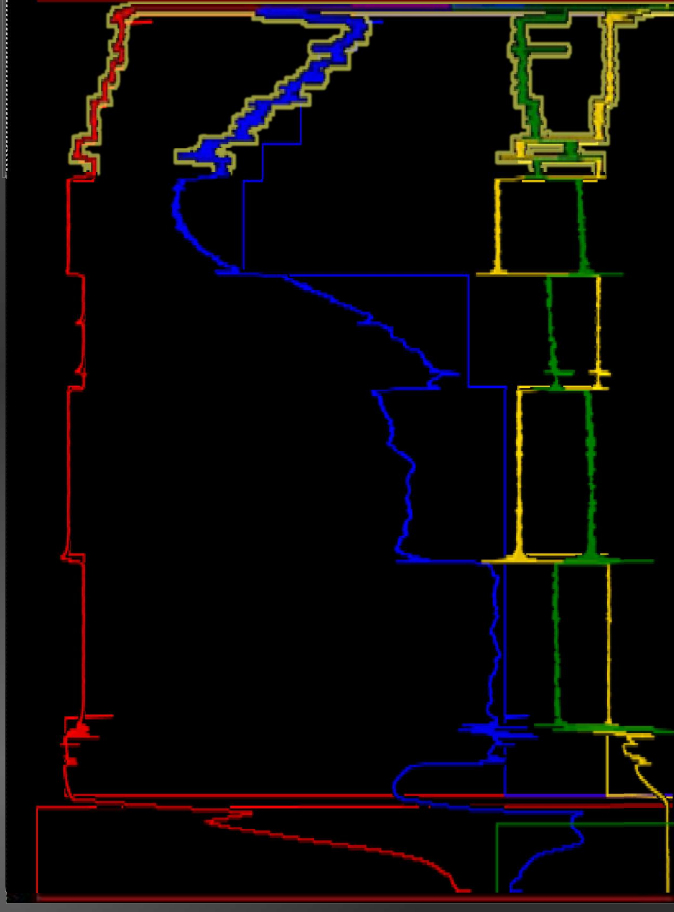
PETERSIME



Phase 1

Phase 2 & 3

Phase 4

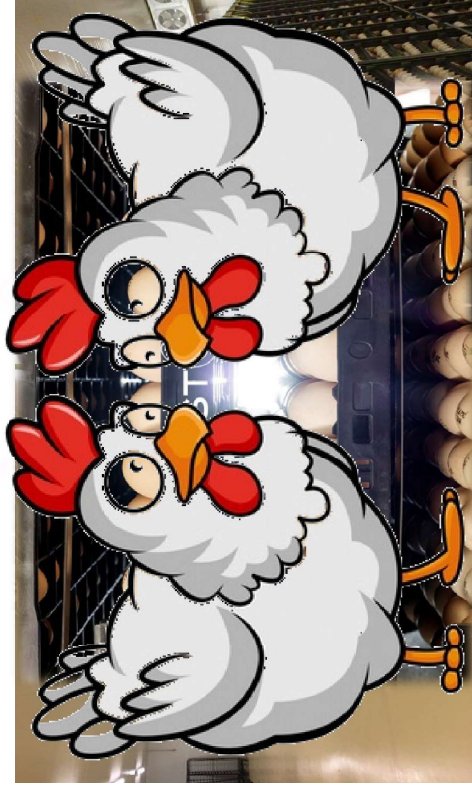


Hatch Finished | 22

Synchro-Hatch™ Controlled



- ▶ It is best to use Synchro-Hatch™ when:
 - ▶ The hatchers have eggs from the same flock, or the fertility is nearly identical
 - ▶ Eggs are stored in good condition (homogenous temperature)
 - ▶ Eggs have been treated with Re-Store



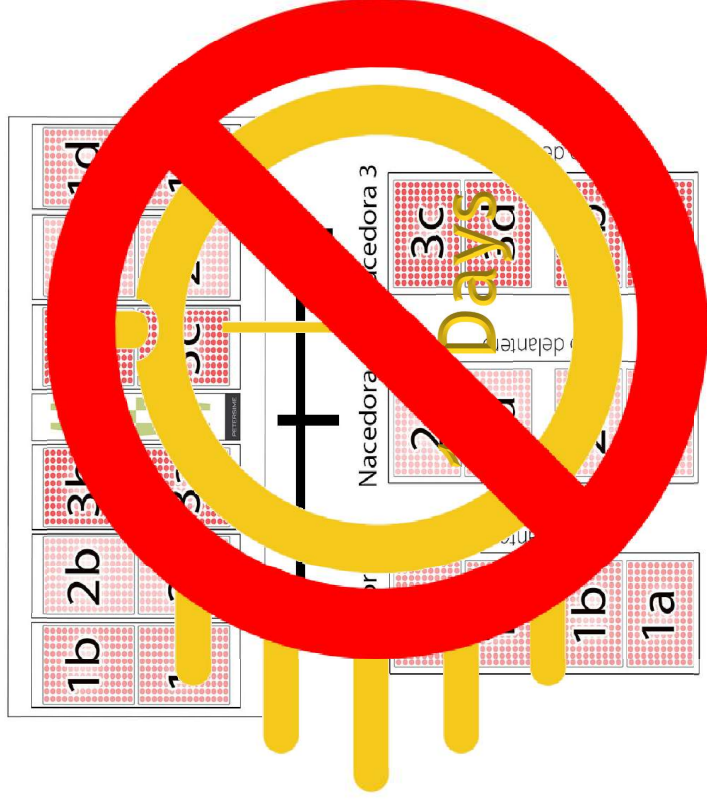
Synchro-Hatch™ Controlled

- ▶ It is best to use Synchro-Hatch™ when:
 - ▶ The eggs are coming from well-managed farm (less contamination and good shell quality)
 - ▶ Egg must not be coming from different genetic lines



Synchro-Hatch™ Controlled

- ▶ It is best to use Synchro-Hatch™ when:
 - ▶ Eggs must be incubated uniformly by following the recommended setting pattern
 - ▶ Transfer time does not exceed 19 days of incubation



Synchro-Hatch™ Controlled



Finetuning Hatcher Program



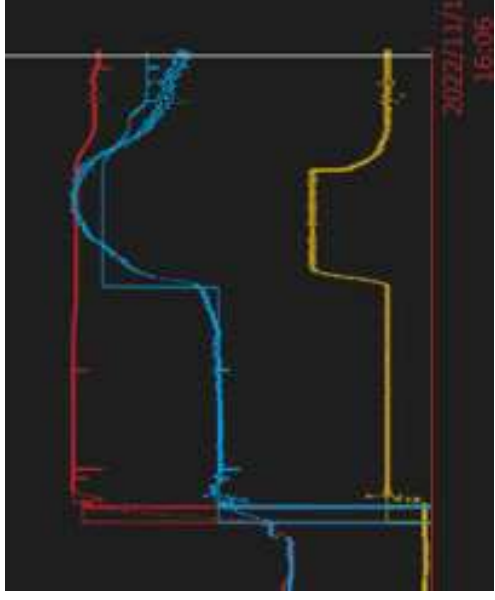
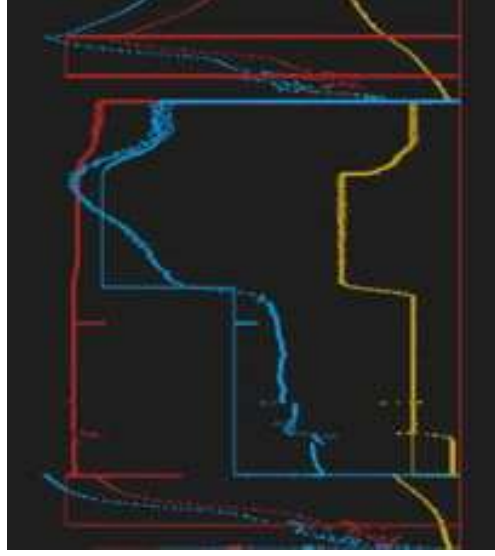
- It is not recommended to program the humidity and CO₂ straight like shown.



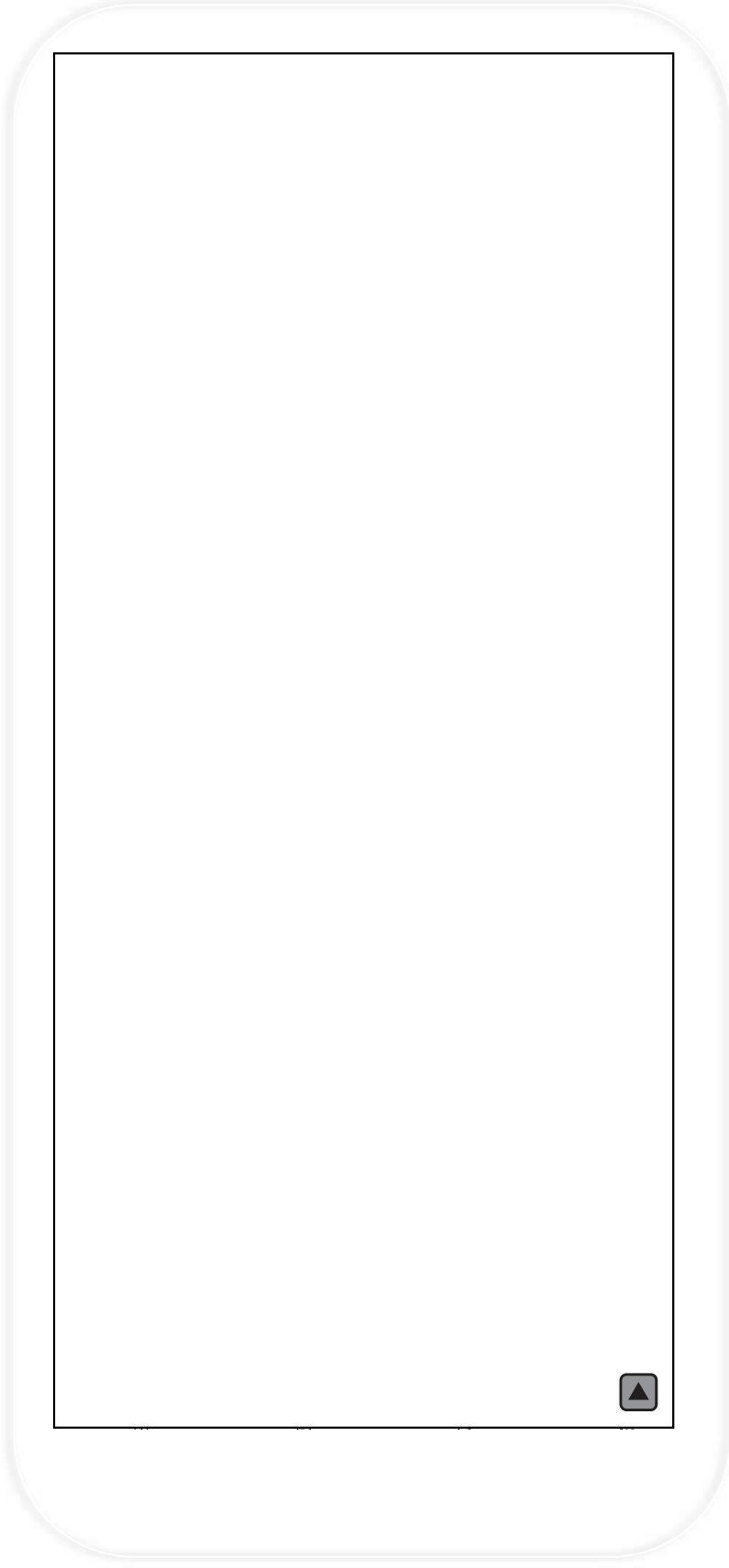
Finetuning Hatcher Program



- For the hatcher, it is important to have a correct timing of the program.



Finetuning Hatcher Program

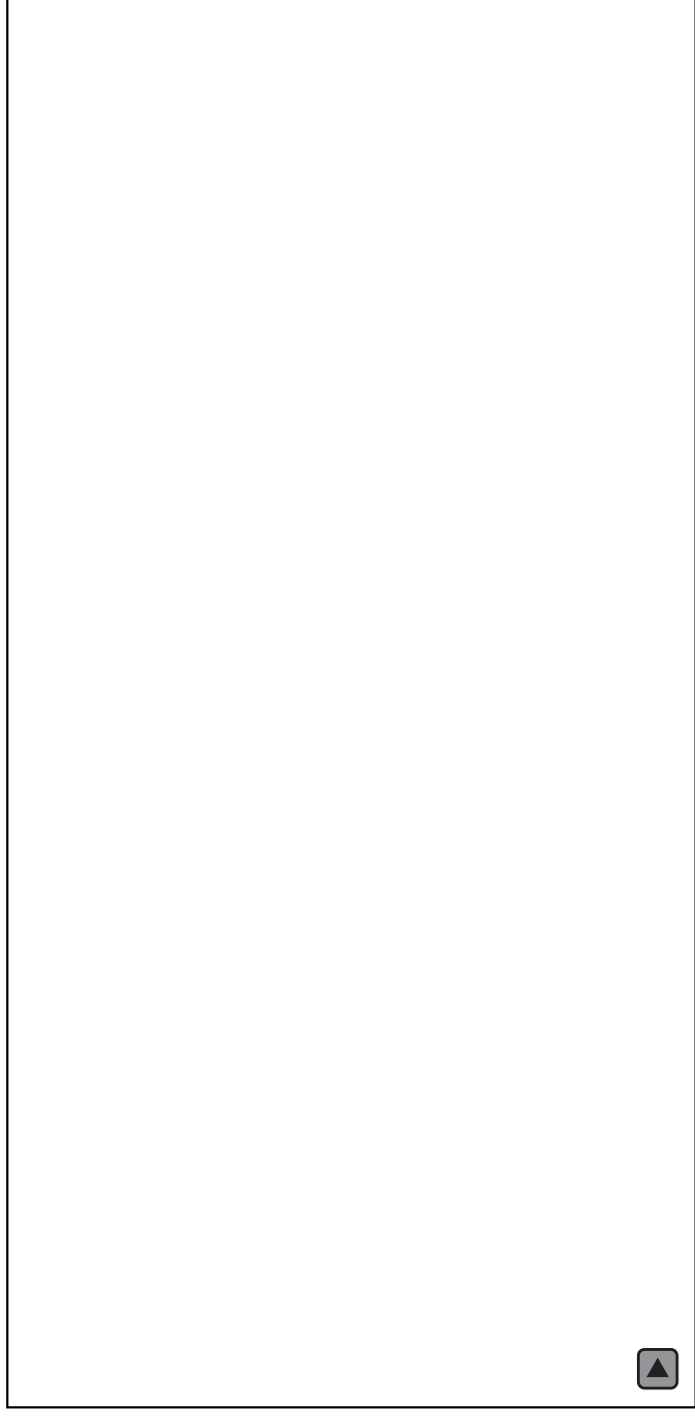


Incorrect Hatch Trigger (CO_2 controlled)

PETERSIME

| 29

Finetuning Hatcher Program

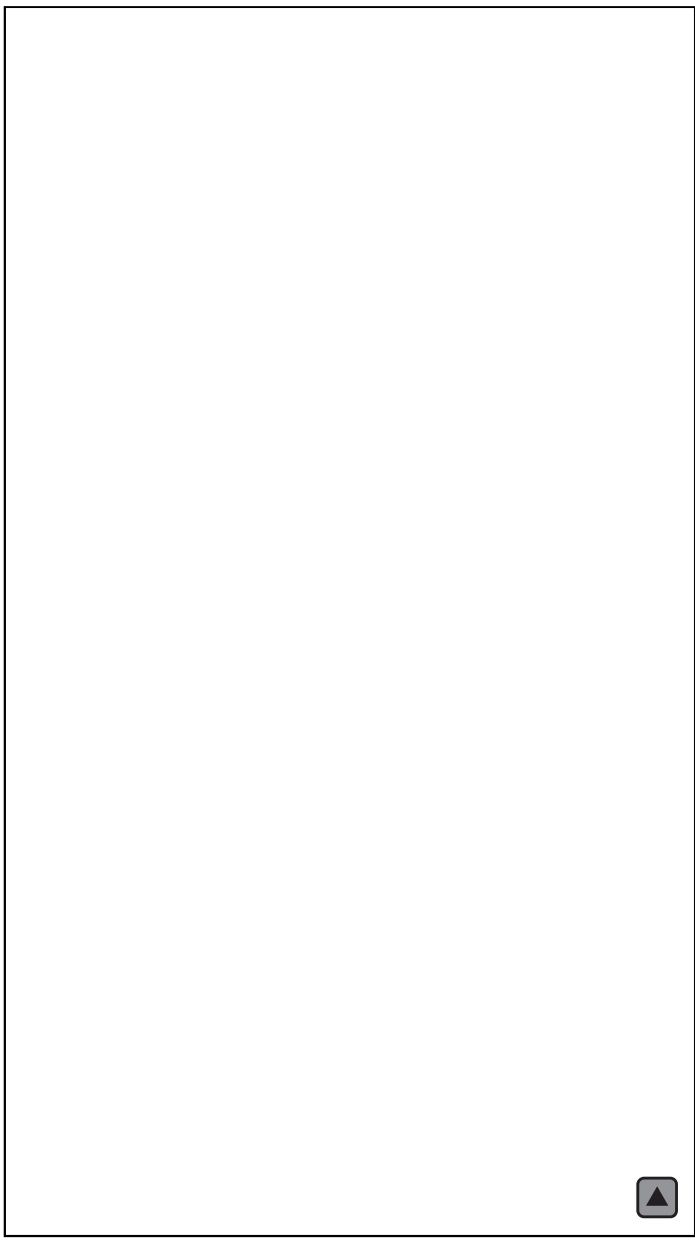


Incorrect Hatch Trigger (Synchro-Hatch™)

Finetuning Hatcher Program



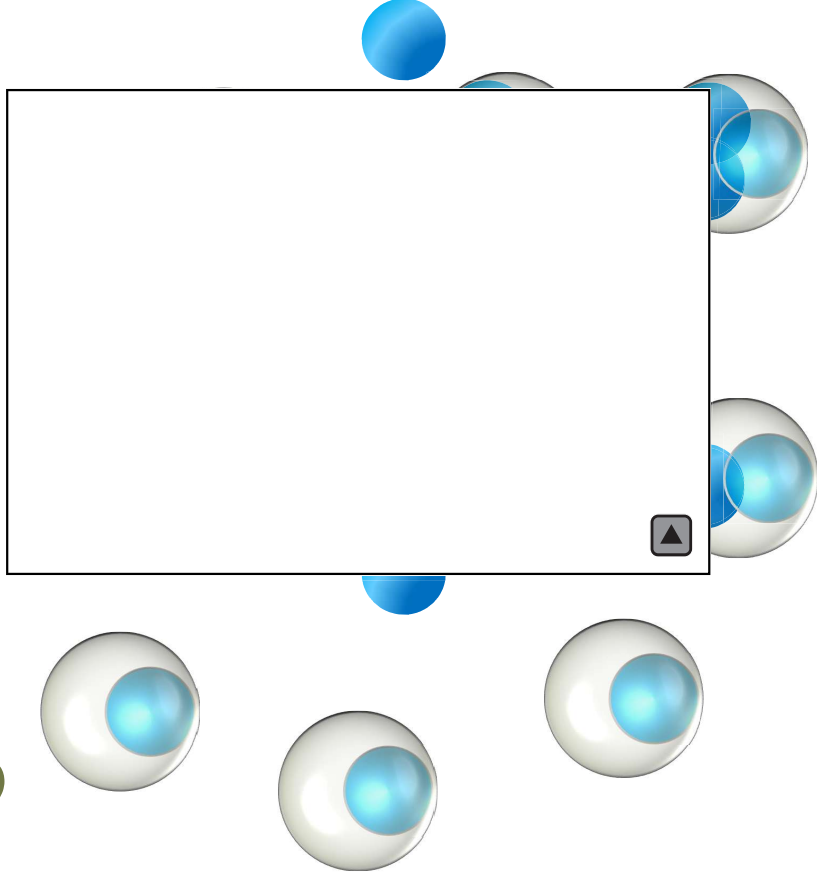
- Effect of misaligned program in the hatcher



- [illegible]

Finetuning Hatcher Program

- ▶ It is not necessary to switch on humidity spray
- ▶ The eggs release more water to the air, especially during external pipping



Finetuning Hatcher Program



- ▶ Humidity spray creates evaporative cooling to the area where the water droplet settles.





Questions?