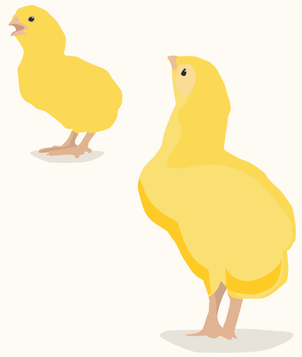
The 5 Brooding Principles (Parent Stock Cobb500)

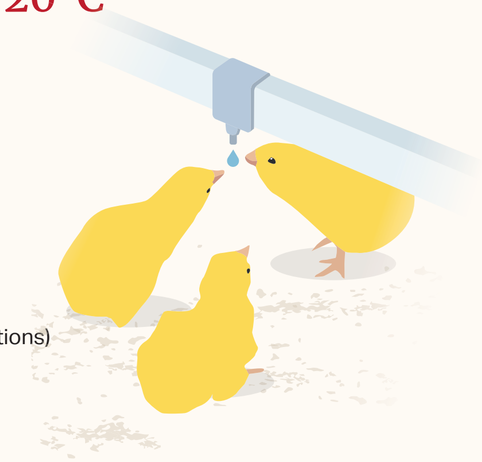
Brooding has to be faultless to unlock full genetic potential!

1 Temperature Control: Thermal Neutral Zone



- Concrete: 28 - 30°C
- Litter: 30 - 32°C, depending on cloaca temperature
- Ambient: 32 - 34°C, depending on RH%, parent age, and cloaca temperature
- Chicks from young parents need + 0.5 - 1°C higher ambient temperature
- Cloaca: first 4 days 40 - 40.6°C, thereafter 41 - 42°C
- Heating capacity of at least 0.075Kw/m³ of house air volume
- Temperature probes free hanging at chick height, not too close to heater or inlet
- All sensors should be calibrated prior to chick placement

2 Water Quality: H_2O = Hygiene and <20°C

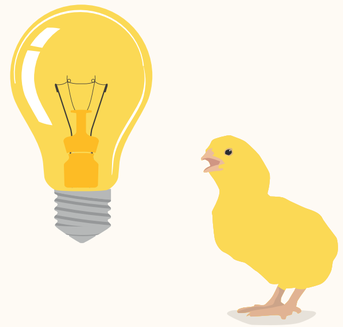


- Maximum temperature of 25°C (If vaccinating orally, maximum 20°C)
- Flush as often as needed to control water temperature and prevent biofilm build-up
- Achieve consumption of at least 1ml/hour/chick in first 24 hours
- 40ml/minute nipple flow rate in first week (always refer to manufacturers' recommendations)
- Provide comfortable nipple height, adjusting height regularly
- Chicks need to stretch to activate nipple, with feet flat on the floor

3 Feed Intake: Maximise

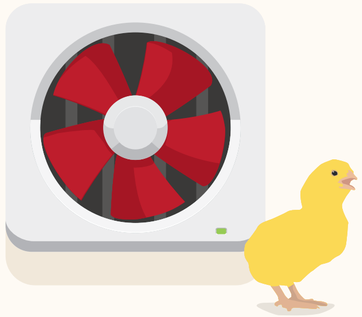
- Cover 50% of brooding area with good quality paper (lasting 5 days)
- Place a line of paper either side of each drinker line
- Place a minimum 30g of feed per chick on paper pre-placement
- Feed on paper to last at least 4 days
- Achieve at least 95% crop fill the morning after placement (sample 100 chicks)
- Achieve consumption of 25% of chicks' bodyweight in first 24 hours

4 Light Intensity: Promote Activity



- Provide a uniformly bright brooding area
- Minimum 25 lux at floor level, ideally 40 lux
- Maximum variation of 20% at floor level between brightest and darkest area
- Attraction light above each control pan to encourage activation of feed line

5 Good quality air



- Oxygen: Minimum 19.6%
- Carbon Dioxide: Maximum 3,000 ppm
- Relative Humidity: 30% to 50%
- Carbon Monoxide: Maximum 10 ppm
- Ammonia: Maximum 10 ppm
- Inspirable Dust: Maximum 3.4 mg/m³ of air

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