



SmartSet™ setter for duck eggs



Homogenous temperature distribution is the single most important parameter for successfully incubating today's modern breeds, each of which has a unique temperature 'signature' for embryonic development. Even minor temperature fluctuations can have a major impact on uniformity and post hatch performance. With SmartSet™, the average difference in eggshell temperature is less than 0.5 °F.

Its modular design meets this specific requirement by enabling set points to be defined separately for each section of 13,104 duck eggs – allowing for both single-stage (All-in/All-Out) and multi-stage incubation.

With capacities up to 52,416 duck eggs, SmartSet™ is the largest closed-door, single-stage incubator available on the market today. Once the trolleys are in, total system control is possible from outside the setter, eliminating and need to move trolleys during the setting period and fully preserving the integrity of heat management and distribution.





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Features include:

Reduced heat-up time

To improve day old chick uniformity, it is vital that the hatching eggs, once in the setter, are rapidly and evenly brought on temperature to start the incubation process. SmartSet's™ new heating device has a substantially larger heating surface area and therefore reduces the time to reach machine set point by 50 per cent. This significantly improves uniformity and subsequent post hatch performance.

Increased cooling capacity

Modern duck breeds generate more metabolic heat now than in the past – and detailed work to forecast future developments has enabled Pas Reform to calculate cooling capacities not only for today's breeds, but also for their offspring in twenty years from now. In SmartSet™, cooling capacity has been increased by 40 per cent.

Integrated heating & cooling system

To achieve homogeneous incubation temperature distribution throughout the machine, SmartSet™ has a combined heating & cooling device with 34 vertical, parallel coils per section, supplied with hot or cold water for optimum energy transmission to and from the incubating eggs.



Central operating console



Integrated heating & cooling system

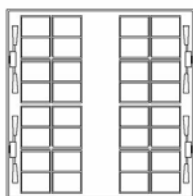




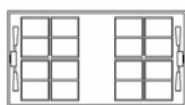
SmartSet™ setter for duck eggs



SmartSet™ 77



SmartSet™ 38



SmartSet™ 19



Technical Specifications

	SmartSet™ 77	SmartSet™ 38	SmartSet™ 19
Use	Single-Stage (All-In/All-out) or Multi-Stage		
Capacity (duck eggs)	52,416	26,208	13,104
Height (+ height motor)/width/depth	2,459 (+300)/4,835/4,933	2,459 (+300)/4,835/2,595	2,459 (+300)/2,940/2,595
Number of trolleys and trays (117 eggs/tray)	16/448	8/224	4/112
Incubation sections (each holding 13,104 eggs)	4	2	1
Heating, cooling, ventilation, humidification:	Integrated heating, warm water radiator or electrical heating / cooling system with 34 vertical, parallel coils in each incubation section		
Turning programmes	Fully adjustable turning programmes: frequency of turning, start/stop timing, 2 or 3 auto-turning positions		
Temperature sensors / CO ₂ control	4 / yes (optional)	2 / yes (optional)	1/yes (optional)

In our commitment to quality improvement through continuous research, we reserve the right to alter specifications of our products without notice

