



SmartSet™ setter for hen 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 19,200 hen eggs – allowing for both single-stage (All-in/All-Out) and multi-stage incubation.

With capacities up to 115,200 hen 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 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.



Separate heating, cooling and ventilation controls per incubator section of 19,200 hen eggs.



Central operating console



Integrated heating & cooling system

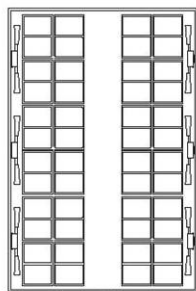




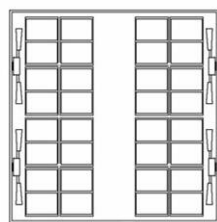
SmartSet™ setter for hen eggs

Technical Specifications	SmartSet™ 115	SmartSet™ 77	SmartSet™ 38
Use	Single-Stage (All-In/All-out) or Multi-Stage		
Capacity (hen eggs)	115,200	76,800	38,400
Height (+ height motor)/width/depth	2,459 (+300)/4,835/7,271	2,459 (+300)/4,835/4,933	2,459 (+300)/4,835/2,595
Number of trolleys and trays (150 eggs/tray)	24/768	16/512	8/256
Incubation sections (each holding 19,200 eggs)	6	4	2
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	6 / yes (optional)	4 / yes (optional)	2 / yes (optional)

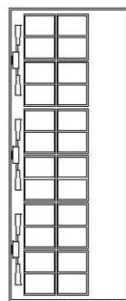
SmartSet™ 115



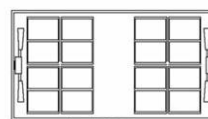
SmartSet™ 77



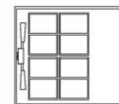
SmartSet™ 57



SmartSet™ 38



SmartSet™ 19



Technical Specifications	SmartSet™ 57	SmartSet™ 38 (long)	SmartSet™ 19
Use	Single-Stage (All-In/All-out) or Multi-Stage		
Capacity (hen eggs)	57,600	38,400	19,200
Height (+ height motor)/width/depth	2,459 (+300)/2,940/7,271	2,459 (+300)/2,940/4,933	2,459 (+300)/2,940/2,595
Number of trolleys and trays (150 eggs/tray)	12/384	8/256	4/128
Incubation sections (each holding 19,200 eggs)	3	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	3 / 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

