

Products

Platinum ESM - Egg Storage Machine

For Short Periods of Incubation During Egg Storage (SPIDES) within our specially designed environment

As more and more hatcheries begin to apply SPIDES storage techniques to manage their egg packs, Jamesway has developed the perfect solution.

Our EGG STORAGE MACHINE (ESM) is specifically designed to handle the rapid and extreme cooling and heating fluctuations necessary for safe storage while using short periods of incubation.

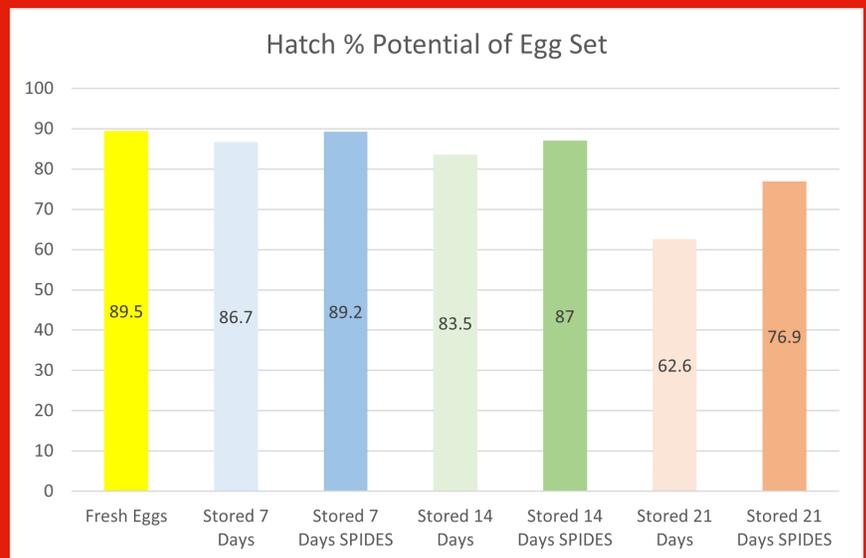


Egg shell temperatures monitored by the Pilot

Store your eggs in an environment specifically designed to maximize hatchability

Embryologists and hatchery managers are in agreement that the best way to store eggs for longer periods of time is to apply short periods of incubation during storage. The Jamesway new Platinum Egg Storage Machine ESM is designed to give you control over the variables. Using special egg sensors within the egg pack, the machine can perfectly calibrate the environment based on actual eggshell temperatures, eliminating guesswork. Using that information, the machine automatically adjusts to the profiles you set.

Increased cooling and heating coils help the system manage temperatures, allowing a more rapid response when shifting between warm and cold; imperative for successful SPIDES treatment.



The longer eggs are stored, the potential gain in hatchability (the hatch of fertile) increases with SPIDES treatment..

WHY DO EGGS RESPOND TO SPIDES?

Applying SPIDES for eggs held during long term storage helps the embryo overcome cell mortality.

EFFICIENCY FOR YOUR HATCHERY

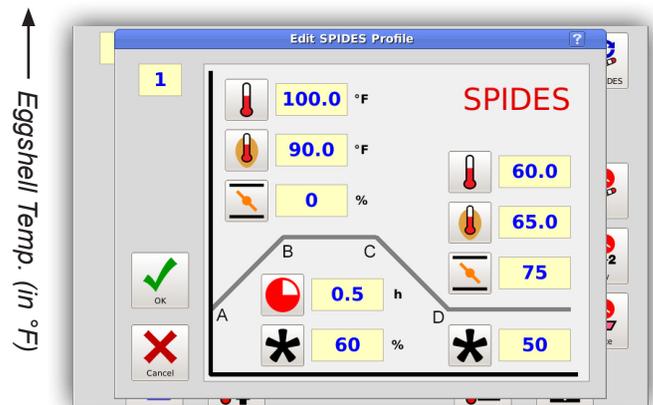
- The SPIDES system uses a very simple profile with only two egg temperature changes
- Egg temperature is raised from, typically, 65 degrees F (setpoint A) to 90.0 degrees F (first setpoint B) rapidly with 6 electric heating elements (18.3 to 32.2 C)
- Temperature is maintained for a specified number of hours, from point B to C
- At the second setpoint C, eggshell temperature is reduced rapidly (from point C to D) back to 65 degrees F (18.3 C) by turning on water cooling (6 layers on the ECU) and an exhaust fan

FEATURES

- Platinum ESM cabinet with power exhaust
- 24VDC ECU with 6 layers of cooling coils and 6 layers of heating elements (each element 2000W)
- Platinum controls with unique software updates
- Unique profile designed especially for SPIDES operation
- Software identification screen

EGG CAPACITY

Refer to capacity chart



Time (in hours) → (*not to scale)

Control screens for ESM

Rack Type	Egg Flat Capacity	SPIDES Machine Capacity
Chicken		
15 Tier	36	34,560
	77	36,960
	42	40,320
	84	40,320
	168	40,320
16 Tier	36	36,864
	77	39,424
	42	43,008
	84	43,008
Turkey/Duck		
13 Tier	25	20,800
	30	24,960

ESM Capacity Chart

