

# Pas Reform ESM™ Energy Saving Module

To fully programme the Vortex™ incubator fan  
for energy savings of up to 30%



**Royal Pas Reform**  
Integrated Hatchery Solutions



Fully programmable air pump RPM

# ESM™

## Benefits

Pas Reform's Energy Saving Module (ESM™) dramatically reduces the use of electricity by reducing the speed of the Vortex™ fans in each section of the setter. ESM™ energy saving module makes the RPM of the Vortex™ air pump fully programmable - derived from embryonic metabolism rates inside the setter - to reduce energy consumption by up to 30 per cent during specific phases of embryonic development.

## How it works

- ESM™ actively controls ventilation in the setter, to circulate only the specific amount of air required, without affecting temperature uniformity around the eggs
- During days 1 and 2 of incubation, the embryos require maximum air flow to uniformly heat all the eggs
- From days 3 to 12, the embryological requirements of the eggs are at a lower level, allowing air flow to be reduced to 75% of its original speed
- From days 12 to 18, the cooling requirements of the eggs once again require more air flow for uniform cooling

## Related products

- ▶ SmartSetPro™
- ▶ AMF™ Adaptive Metabolic Feedback

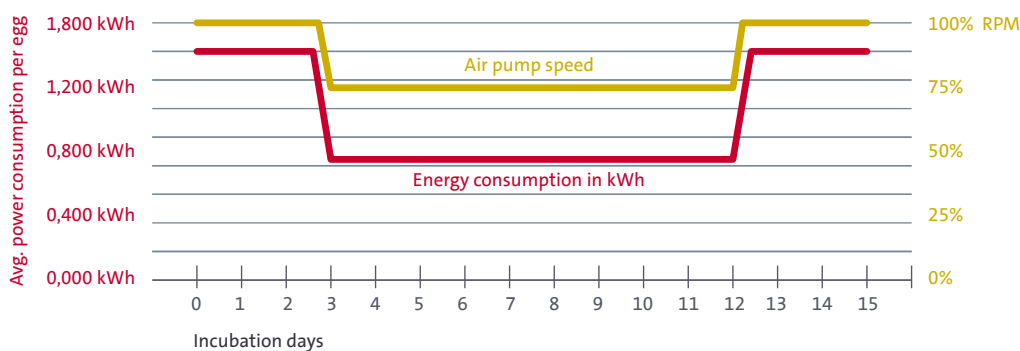


Figure: Reducing air pump speed from incubation day 3 to 12

## Technical Specifications

Includes > ESM™ Software and frequency control unit



**Royal Pas Reform**

Integrated Hatchery Solutions

Bovendorpsstraat 11  
7038 CH Zeddam  
The Netherlands

Phone +31 314 659 111  
info@pasreform.com  
www.pasreform.com