

3 in 1: Arasco Foods Chooses for HatchTech's Product Groups

Arasco Foods, Saudi Arabia and HatchTech have signed a special agreement for the delivery of HatchTech equipment. Arasco Foods will double their current hatchery capacity with MicroClimer Setters and Hatchers to 99 mln eggs per year. Special about the agreement is that, besides the incubators, Arasco will also incorporate HatchTraveller into their transport fleet for day old chicks. Last but not least, Arasco Foods will put the first HatchBrood facility in Saudi Arabia into operation.

Doubling HatchTech Incubation Facility

After completion, the hatchery, located close to Riyadh, will hold 40 MicroClimer Setters 126720 and 24 MicroClimer Hatchers 42240, with a total production capacity of 99 mln eggs/year. HatchTech will also deliver a climate control and water management system.

Mr Sulaiman M. AL-Quhidan, CFO & President of Arasco Foods: "We are convinced that the MicroClimer technology of laminar airflow and temperature control in 6 sections will result in perfect embryo temperature control and therefore perfect chick quality. We have therefore also decided to start working with HatchTravellers and the new HatchBrood system, which are based on the same technology."

Chick Transport with HatchTraveller

Arasco also signed an agreement for the delivery of 2 HatchTravellers 70C, with a capacity of 76,800 chicks each. Especially in Saudi Arabia, where outside temperatures can vary from + 50°C during the day and -2°C during the night, a transportation system that does not depend on external temperature conditions to control the internal truck environment, works very well.



Mr. Abdul Saleem Sajawal, AMC, Mr. George de Kock, Mr Sulaiman M. AL-Quhidan, Arasco Foods, Mr. Martin Selles, Mr. Huibert Jan van Veelen, HatchTech, Mr. Joost Gerrits, Arasco Foods.

HatchTech has applied the MicroClimer technology to the HatchTraveller, to ensure that body temperatures of the d.o.c.'s will stay at 104°F. Even during long distances and with extreme outside temperatures, the quality of the chicks is safeguarded. By delivering the HatchTravellers to Arasco, a total of 12 HatchTravellers will be in use in the Kingdom.

First HatchBrood Facility in Saudi Arabia

Convinced about the laminar airflow and MicroClimer technology, Arasco Foods also decided to install the first HatchBrood facility in Saudi Arabia. During the first days of a chick's life, the brooding period, the chick cannot regulate its body temperature. Especially in Saudi Arabia, with extreme outside temperatures, it is difficult to achieve uniform environmental conditions during the brooding period. HatchBrood guarantees a controlled air temperature and air velocity, which assures optimum chick body temperatures for all chicks. In the system, chicks have access to fresh water, air and feed. A perfect start is ensured.

One concept for all stages

Mr. Huibert Jan van Veelen, International Sales Manager for HatchTech in the Middle East: "We are proud that Arasco Foods has chosen to incorporate the 3 product groups of HatchTech into their operations. With the HatchTech equipment they will create, safeguard and maximize the chick quality. One concept for 3 stages means improved field results such as fewer non-starters, better growth, increased uniformity and lower mortality rates.



HatchBrood: A Tool to Eliminate Antibiotic Usage

To successfully remove antibiotics from poultry production, the industry must institute programs that promote the development, maturation, and function of the natural immune system in poultry.

Programs designed to minimize the use of antibiotics should include the following:

1. Ensure uniform development and function of the immune system. Minimize stress which delays immune system development.
2. Minimize exposure of the chicks to the disease agents while the immune system is developing.
3. Vaccinate against field disease challenges.
4. Ensure uniform development and function of the intestinal tract in the chicks.
5. Ensure that the intestines are populated with 'good' bacteria.
6. Ensure gradual absorption of the yolk over time to expose the immune system to the maternal antibodies.
7. Not cause damage to the delicate cilia in the trachea of the chick.

Ensure good maturation and development

The first week after hatch is a crucial period in the development of the chick. During this period, the chick undergoes dramatic development and maturation of the organ systems, especially the intestinal tract and the immune system. To ensure this maturation and development, it is necessary to minimize stress and uniformly provide for the nutritional and environmental needs of the chicks during this period.

Intestinal tract: part of the immune system

While we generally discuss the intestinal tract in the context of absorption and field performance, it is also a major factor in the immune system function. In fact, it is the largest lymphoid organ in the body. It is the surface of the intestine that is initially exposed to the environmental microflora. This exposure activates the immune system.

The intestinal tract development is very energy intensive. The weight of the intestinal tract increases 600% during the first week. Development is triggered by the onset of feed and water consumption. Therefore, the most important aspect of management of post-hatch chicks is to ensure that they eat and drink immediately.

HatchBrood enables antibiotic free poultry production by:

1. Uniformly brooding the chicks in their thermoneutral zone with feed and water;
 - There is no stress to detrimentally impair the immune system development and maturation.
 - The best use of the yolk is to supply maternal antibodies slowly to the immune system for protection of the chick (instead of using the yolk quickly for nutrition).
 - The intestinal tract develops and functions rapidly.
2. The environment can be cleaned and disinfected to eliminate disease challenges;
 - The immune system develops before the chicks are exposed to the field disease challenge.
 - Competitive exclusion products can be used to establish 'good' bacteria microflora.
3. Fresh air is continuously supplied. There is no ammonia buildup to damage the cilia in trachea.

In a recent interview, Dutch poultry farmer, Mr. Kees Nuijten, discussed his experience with HatchBrood chicks. In addition to performance improvements in HatchBrood chicks, he has been able to grow four batches of these chicks completely free of antibiotics and maintain a total growout mortality of less than 3%. In addition, the number of HatchBrood chicks rejected for E. coli at the slaughter house is less than in the case of conventionally started flocks.

Early brooding in HatchBrood produces chicks capable of naturally responding to field disease challenges. With enhanced natural disease resistance, antibiotic use is reduced.





HatchTech Setter Trolley

The setter trolley is an important part of your incubator. HatchTech has designed one that allows for optimal automation of the incubation process. Strong, durable and extremely stable, it lets you work much more efficiently and effectively.

Stable, durable and long-lasting

The corner edges of the HatchTech trolley are connected using special bolting technology, which makes them remarkably strong and stable. This gives the trolley a longer lifespan, and ensures smooth logistic operation.

The new setter trolley has the same dimensions, and can be used in combination with your current setter trolleys.

Individual turning motor

Each setter trolley has its own individual motor, which turns the eggs exactly to the 45-degree angle required for good incubation. Individual motors on each trolley offer extra benefits. They make it possible for hatchery managers to fine-tune turning frequency and sequence as desired.

Optimal for automation

The construction and finishing of the trolleys is extremely precise. This guarantees that automated processes move along smoothly and efficiently, without interruption. And since the trolley has no vertical bar in the center like traditional ones do, trays can be loaded onto the trolley from either side and pushed through until the level is completely filled. There's no need to turn the trolley around halfway during either loading or unloading.



Successful Introduction New Website Chick Length Analysis

HatchTech launched a new website for chick length analysis, March 2011. The new website is a tool for hatcheries to easily and effectively evaluate chick quality and capture field performance potential.

Dr. Inge Roover – Reijrink, Senior Researcher HatchTech: "Since the launch of our new website, we have received an overwhelming amount of enthusiastic responses. Hatchery managers let us know that they have tried this HatchTech method for evaluating chick quality. They are convinced that chick length is a better, more effective and easy method for evaluating chick quality, compared to the traditional methods such as body weight. They are very positive about the available materials on the website, especially the chick length analysis program, which quickly calculates the results of the test.

The chick length website is a comprehensive guide to chick length measurement and analysis. It explains how to measure chick

length and evaluate the data. The website also gives helpful advice on how chick length can be improved. Furthermore, all the necessary forms and the special HatchTech Chick Length Analysis Program can be downloaded.

Have a look and try it yourself: www.chicklength.com



Who's Next

A selection of current HatchTech projects under construction

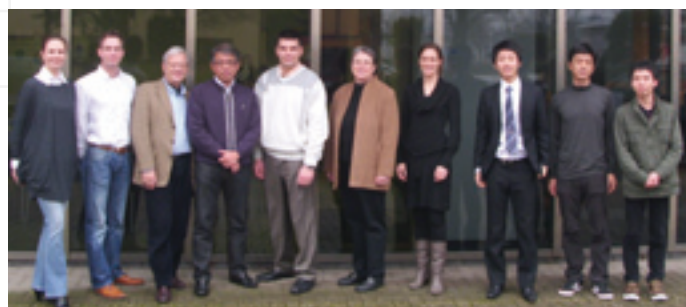


Emsland Hatchery located in Dohren, Germany, has agreed to the 7th extension within a period of 8 years. The hatchery is a part of Rothkötter Kraftfutterwerk Group. This group is one of the fastest growing Western European integrators at present. The newest extension will include 8 MicroClimer Setters 115200 and 8 MicroClimer Hatchers 28800 which will be equipped with, among other things, the CyClean™, which captures the full from the airflow that leaves the hatcher, and the U-Vaporator™, a humidification device that processes water vapor (1 micron) for perfect and uniform chick quality.

Al Ajban Farm, United Arab Emirates, has opted for HatchTech equipment for its new state of the art hatchery in the area of Abu Dhabi. The new hatchery will be equipped with 9 MicroClimer Setters 57600 and 4 MicroClimer Hatchers 28800. Furthermore, HatchTech will install a complete Fumigation Room, a complete Ventilation System and a Cooling & Heating system. The construction of the hatchery will start in the second half of 2011. Additional to the new hatchery project, Al Alban Farm also signed an agreement for the delivery of a HatchTraveller 40C, with a capacity of 40,800 chicks and a body length of 4525mm.

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In March, the **second HatchBrood Training Course** was held at the HatchTech headquarters in **the Netherlands**. Participants who joined the course came from new HatchBrood facilities in, amongst other places, Belarus and Japan. The course covers both technical and physiological topics with emphasis on brooding principles, standard operating procedures and quality analysis programs.



New Employees

HatchTech is expanding its Research Department with the appointment of Mrs. Carla van der Pol. Carla graduated from Wageningen University, the Netherlands, with a specialization in adaptation physiology. Carla will participate in projects for HatchTech's product groups HatchTechnology, HatchTraveller and HatchBrood.

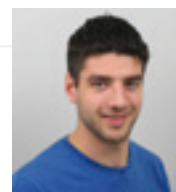


Carla van der Pol, Junior Researcher
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HatchTech is expanding its Service Department with the appointment of 3 new colleagues. Mr. Hanold van de Pol, who has already been working at HatchTech for 4 years, will be responsible for spare parts delivery, parts repair and technical services. Mr. Eduard van Velde and Mr. Mark Bakker will reinforce the team of service technicians.



Hanold van de Pol
Manager of Service
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Eduard van Velde
Service Technician



Mark Bakker
Service Technician

Agenda

- **Agrena 2011**
1-3 July
Cairo, Egypt
- **Indo Livestock 2011**
8-10 July
Jakarta, Indonesia
- **3rd HatchBrood Training Course**
22 - 26 August
Veenendaal, the Netherlands
- **XXII Latin American Poultry Congress**
6-9 September
Buenos Aires, Argentina