

EASY-SET® FLORA™

is a revolutionary starter culture system bringing together the best of both worlds



The next generation for starter cultures

- ▶ small cost, big impact
- ▶ direct starter cultures have high phage robustness and provide the complex flavor notes you want
- ▶ give high consistent product quality with one easy to use platform
- ▶ give some variations in product quality

EASY-SET® FLORA™ starter culture system uniquely combines the best bulk starter cultures with the best of traditional direct starter cultures

- ▶ reduce variation
- ▶ reduce downgrades by up to 50 %
- ▶ increase yield by up to 2 % at the same time

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Improving food & health



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Automation System Hellas

Vast experience applied in >350 projects – From small scale to complete turn-key plants

Automation System Hellas has been responsible for design, construction and automation of certain process cells of the new plant of Kri Kri, one of the leading Greek dairy companies. Kri Kri has, as IDM reported in issue 8/2016, built a completely new processing plant after the old one burnt down in late 2013. The project was accomplished in close cooperation with Tetra Pak within only 8 months, whereby Automation System Hellas had only 5 months to finish its tasks. IDM therefore thought readers should definitely have a closer look on Automation System Hellas solutions and services.

Automation System Hellas was established over 20 years ago with the scope to automate plants and processing lines in the food and beverage industries worldwide, with a particular emphasis in Dairy.

Their Production Lines are designed and engineered to meet strict hygiene, safety and quality standards, ensuring the best Return On Investment (ROI) for the clients

More than 350 successful projects, amongst others in Greece, in the Balkan countries, in Northern Africa as well as in Iraq and Ghana, underline the competence of the company. By offering custom-made production lines and applications, integrating the most trusted and innovative equipment brands worldwide, Automation System Hellas provides flexible solutions to the processing and automation needs of its clients. Cooperation with customers ranges from small projects to turn-key solutions.

Prefabricated units

Apart from the customized solutions for individual plants, the company provides ready tested, automated prefabricated units, with short delivery times and easy installation. These units come with flexible automation software and detailed operator manuals so that even inexperienced operators can easily put them in operation.

Part of the skid-mounted turn-key equipment offered by Automation System Hellas are:

- CENTRASIP, a central unit for automatic CIP, as a compact solution for small and medium size plants.
- CIPLAS, a local unit for automatic CIP, as a ready-to-use solution for medium and large size plants which can be installed either individually or in conjunction with other CIPLAS units.
- GALAXIAS, an automatic milk pasteurization unit for small and medium size plants. It is supplied with different automation levels while it can easily be integrated in any plant.
- THERMAS, an automatic compact heating unit, as a solution for in-line or recirculation milk heating, suitable for all dairies.
- YOGURT/CHEESE HOLDERS, as a solution for yogurt/cheese production plants providing long holding times and sold either separately or in combination with the GALAXIAS.



Typical Central process control



Typical Yogurt fermentation unit



Typical Reception unit with bactofugation



Typical Set Yogurt production with THERMAS

The Kri Kri case

AS Hellas has integrated the best quality components from top suppliers (Alfa Laval, Bardianni, ETA, Festo, GR Inox, Coavec, Grundfos, Inoxpa, Rittal, Siemens, Tassalini and Ytron), into the concept of the new Kri Kri plant in Greece. For the process automation, their customized integrated solution used the most powerful PLC of SIEMENS Simatic series, S7-400.

The fully automated factory was delivered in just 5 months, doubling the capacity of the old one, with vastly improved quality and consistency. Fully automated recipes for maximum standardization were integrated. Smart pre-set CIP programs increase operational efficiency and ease resource management, guaranteeing high cleaning performance and a safe end-product.

DLBA Dairy

In 2015, Automation System Hellas has been awarded a turn-key project by DLBA Dairy in Erbil/Iraq, for the construction of yogurt and Ayran product lines. Pre-fabricated units have been re-assembled and put in operation for the project. Applied know-how used to construct

and put in operation a special-feature mixing, pasteurization and ready to fill set yogurt and Ayran unit, achieving a high quality end product, using initially water and milk powder. Edge automation ensured the combination of high safety and production output. Installed were CENTRASIP, GALAXIAS, YOGAS HOLDER and THERMAS units.

Koukakis Farm

Starting from a small scale, Koukakis Farm has developed into a modern facility which exports its products to demanding European markets. The 5,000 sq.m plant in Kilkis processes 18 million litres of milk a year in a fully automated concept with focus on safety, quality, and better utilization of resources.

Since 2005, AS Automation System Hellas has been designing and manufacturing automated production lines and equipment for Koukakis Farm. The plant is constantly evolving, following the company's growth and with full commitment to ROI. Nowadays, the smart factory ensures complete control of the manufacturing of a full range of pure and high quality products. For more information go to: www.ashellas.com