
CASE STUDY

Food & Beverages Applications

Maximising the efficiencies of the Versis® vertical pressure leaf filter system with a dedicated remote access PLC control system

AMAFILTER® PROVIDED UK BASED FARRINGTON OILS LTD WITH REMOTE ACCESS TO THE PLC CONTROL SYSTEM OF THEIR VERSIS® VERTICAL PRESSURE LEAF FILTRATION SYSTEM TO OVERRIDE AND ADDRESS PRODUCTION PROBLEMS OFF-SITE.



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BACKGROUND

Based in Northampton, UK, Farrington Oils Ltd are the original 'seed to bottle' producer of Mellow Yellow cold pressed rapeseed oil, a healthy, tasty and brilliantly versatile cooking oil enjoyed by many.

The company's produce is grown to LEAF Marque standards, a recognised institution that promotes environmentally responsible and sustainable farming.

THE CHALLENGE

Farrington Oils Ltd purchased a Versis® 610-5/930 fully automated pressure leaf filter system to replace their press filter which required full supervision in operation and regular downtime for cleaning. The Versis® system comprised of a skid with all the necessary stainless steel feed tank and pipework as well as a local PLC based control panel with an easy to use HMI touch screen.

Filtration systems are often situated on remote farms, when breakdowns or operational issues occurred, resulting in workers travelling vast distances to visit the farms to shut the systems down.

Being unable to shut down the systems immediately resulted in spillages, which caused a serious break in the production of their critical FMCG supply chain.

THE SOLUTION

Farrington Oils Ltd approached Amafilter® to discuss the problems they faced when breakdowns occurred and to enquire about the possibility of providing remote access to their PLC control system with an Amafilter® Versis® vertical pressure leaf filter system.

To assist the customer further automate and enhance the reliability of their filtration system, the Amafilter® engineering team researched the market to find a remote access system that would meet Farrington Oils requirements. Once sourced successfully, a remote VPN router was installed to link the existing Siemens PLC and HMI to an accessible central hub.

THE RESULT

The amafilter® team identified, supplied and installed a suitable remote access interrogation system which operated with a remote VPN router to link into the existing Siemens PLC. This enabled remote access and override to address any production issues quickly as and when they arose.

Following the installation of the VPN router, Farrington Oils Ltd gained remote access to their Versis® vertical pressure leaf filter system.

This meant that when the feed tank (unfiltered oil) reaches a high level, which could cause spillages or damage to the filter, an alarm is triggered allowing the customer to override production and shut the system down remotely.

Although the system must be restarted on-site, shutting it down before damage or spillages occur has saved Farrington Oils Ltd days of lost production time.

OUR PRODUCT

The Versis® vertical pressure leaf filter system reduces processing time and improves efficiency in the extraction of organic oil for customers due to the inclusion of the optional remote access to the PLC control system.

- Proven technology
- Fully automated, ensures safety.
- Requires only a small footprint, maximises space.
- Easy access to the filter leaves for removal of the cake.
- Full automation means limited maintenance and lower operational costs.
- A closed filtration system for complete safety when in use.
- Short regeneration time between filtration cycles, reducing operating costs as the filter can filtrate for longer periods without disruptions.
- Easy to clean pressure filter leaves.
- No rotating parts, keeping maintenance to a minimum.
- Reinforced pressure filter leaves provide extended lifetime.
- Specifically designed self sealing cover gaskets for a perfect sealing solution and maximum safety.

Customer:
FARRINGTON OILS LTD
Industry:
FOOD & BEVERAGES
Application:
RAPSEED/CANOLA OIL
Location:
UNITED KINGDOM
Product:
VERSIS® VERTICAL PRESSURE LEAF FILTER SYSTEM



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