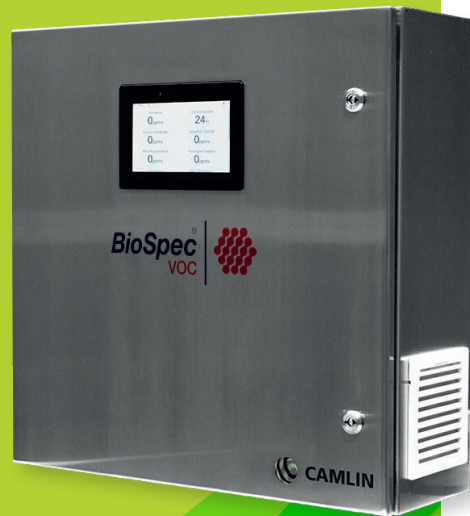




BIOSPEC VOC CASE STUDY: PRODEVAL

Customer: Prodeval
User: Caviro Group
Location: Faenza, Emilia-Romagna



Prodeval installs BioSpec VOC at Italy's largest co-operative winery

Biogas processing specialist Prodeval has supplied Camlin's BioSpec VOC real-time biogas monitoring solution to Caviro, Italy's leading co-operative winery.

The Challenge

Founded in 1966, Caviro Group members' vineyards extend to over 36,000 hectares across the country. Caviro is committed to the sustainable recovery of by-products derived from the wine and agri-food chain, transforming these into biomethane and products for the food, pharmaceutical and agriculture sectors.

Operational since 2018, Caviro's biomethane plant in Faenza produces approximately 1500 Nm³ of biomethane per hour from by-products derived from the wine and agri-food chain

FORSU biogas contains a range of contaminants including VOCs (volatile organic compounds), and hydrogen sulphide. These need to be removed by activated carbon filters before the raw biogas is upgraded to biomethane. The performance of these filters must be monitored to ensure impurities are fully removed.

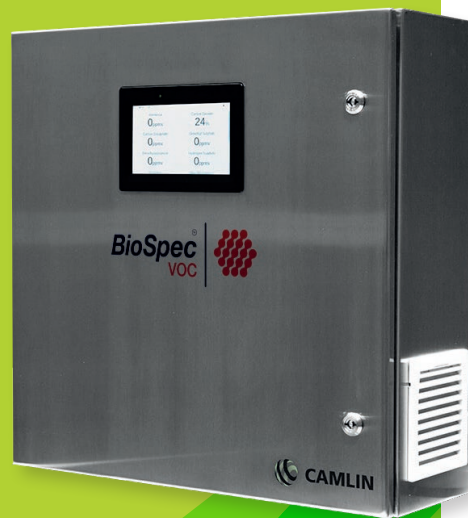


BioSpec[®]
VOC



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Solution & Benefits

To maximise uptime and operational performance, biogas recovery and processing specialist Prodeval installed Camlin's BioSpec VOC monitoring solution for online analysis of 'before' and 'after' contaminants for each of the plant's activated carbon filters.

"We selected Camlin to supply an online analyser for the Caviro biomethane facility" says Luca Barbato, Manager, Prodeval Italy. "Their BioSpec VOC solution offers many advantages, such as simple installation and operation, high accuracy and measurement range, and low maintenance cost. Their system was also straightforward to integrate into our own systems."

About BioSpec VOC

BioSpec VOC offers accurate real-time detection and measurement of individual contaminants in biomethane plants, such as specific ketones, terpenes, ammonia and hydrogen sulphide. It provides assurance that these impurities have been removed by the activated carbon filters in the upgrading process.

Unlike other gas analysers, BioSpec VOC does not require any carrier gases and has zero sensor drift; this avoids the need for frequent recalibration and periodic sensors replacement. As different components can break through the filters at different rates, by measuring individual components, BioSpec VOC enables action to be taken quickly on filter replacement, preventing costly damage to the separation membranes.

"Camlin's BioSpec VOC solution offers many advantages including simple installation and operation, high accuracy and measurement range, and low maintenance costs. It was also straightforward to integrate into our own systems."

Luca Barbato, Manager,
Prodeval Italy

Find out more

prodeval.eu/en/
caviro.com/en/
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