

► Princes Soft Drinks, Bradford

# Bespoke system that match a unique set of requirements

Princes soft drinks in Bradford is the largest soft drinks site within the group. On-site they produce a vast variety of pack formats and flavours for own brand soft drinks.

- During 2014 Princes heavily invested in new ingredients processing, warehousing and processing centre. To keep pace with this level of investment and growth, a new water treatment system was required.

A scope of works was developed for the project during 2017. The proposed system needed to conform to hygienic design with the use of EHEDGE required throughout. As the system would be used to produce soft drinks for some of the biggest retailers in the UK, the quality of the finish needed to be of the highest standards. A bespoke design was required as an existing patch of land was due to house the plant in a newly constructed building.

Envirogen's use of 3D model and market leading expertise with the industry meant they were selected to work with Princes in delivering a system that would meet all their objectives.

## Installed System

is fully automated  
inclusive of sterilization  
sequences





# Working together and improving systems

## The Challenge

Envirogen's scope of supply included triplex carbon filters, feed pump system and UV treatment. A production capacity of 300m<sup>3</sup>/hr was to be delivered through steam sterilizing media beds.

The installed system is fully automated inclusive of sterilization sequences. UV treatment is continuous and monitored in real-time throughout production cycles. A Siemens PLC system and an associated SCADA package were utilized to match the end users' standards.

Envirogen utilized 3D model through the design phase due to the limitation on space to house the system once complete. This approach allowed for input from all stakeholders during the construction of the building.

Once Envirogen were given access for construction the design was finalized and ready to go. This approach facilitated an effective construction and commissioning program.

## A triplex activated carbon system was installed on-site.

The system is constructed completely from 316L stainless steel, with all components and vessel comping complete with a polished finished that ensures the system delivers a high specification finish throughout.

The plant is fully automated with process monitoring ensuring the correct contact times, UV dose rates, and temperatures during sterilization.

During the commissioning phase the product water was tested to ensure the quality matched the stringent specifications assigned to the plant performance criteria.

Dedicated UK based project management offered a single point of contact to the client throughout the execution phase. The assigned PM was supported by the wider Envirogen team that consisted of controls engineers, process engineers, and the commissioning team.



**All components  
and vessel  
comping complete  
with a polished  
finished**

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