

Helping wastewater disposal costs to evaporate

Pharmaceuticals | Case Study

The Client

Our client specialises in biosecurity, animal health and dairy hygiene products, including disinfectants and detergents. The company has two purpose-built manufacturing facilities in the UK and exports to over 60 countries worldwide.



Benefits

- On-site wastewater treatment facility installed, enabling direct discharge to drain meeting the Scottish Environmental Protection Agency (SEPA) consent limits.
- Substantial reduction in off-site waste disposal, previously costing around £30,000 per month.

The Client's Needs

Manufacturing disinfectants and detergents produces substantial volumes of wastewater, which cannot simply be discharged to the drain without rigorous treatment. Our client was using an external supplier to collect its wastewater for off-site disposal, costing around £30,000 per month. The company needed a wastewater treatment solution that could adequately cope with its highly variable effluent and allow direct to drain discharge in line with SEPA consent limits, reducing off-site disposal.

The Solution

Our expert team carried out thorough benchtop laboratory testing using a 'worst case' sample of effluent to identify that an EVALED® PC F6 evaporator was the most robust wastewater treatment solution.

The system accelerates the natural evaporation process to produce a distillate that meets the biological and chemical oxygen demand (BOD and COD) consent limits.

The EVALED unit's capacity was more than adequate to manage and treat the effluent volume of 6 m³ per day, and the installation was successfully completed in a week. The system was commissioned and validated in two days by analysing the COD and pH of the distillate to confirm compliance with the regulations. As a result, our client now has approval from Scottish Water and SEPA to discharge the majority of its wastewater to the drain.

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