



COMPANY PROFILE

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CAP Technology Effluent Treatment Division

CAP Technology is a Company involved in the supply and installation of industrial effluent treatment plants, often on a turnkey basis. We have the resources and ability to progress projects from initial feasibility studies through to the supply and installation of full-scale plants. Successful projects have been completed both throughout the UK and overseas.

Technology

A wide range of effluent treatment technologies have been developed by *CAP Technology*. We are not restricted to particular systems, and therefore can openly evaluate the most cost effective process train for a particular application.

Project Management

CAP Technology undertake a wide range of projects, incorporating the latest plc control systems and meeting the stringent specifications imposed by the UK food industry and Water Plc's. They are also able to adapt their technology and processes to upgrade existing facilities. In addition to providing detailed packages of manuals, we also offer full courses of operator and management training.

Quality

The Company follows recognised standards of quality control consistent with ISO 9002. Contracts have been undertaken with major blue chip organisations, both in the UK and overseas. Our efficient and accommodating approach to business enables individual requirements to be met, with information being presented on the latest software systems.

Health & Safety

CAP Technology recognises the risks associated with major construction projects. We endeavour to be fully compliant with all current health & safety legislation during the course of our work. We retain an IOSH accredited health & safety advisor to monitor our performance and regularly attend site to inspect our procedures during the course of projects.

References

The following are examples for projects implemented by *CAP Technology* in recent years:

Major Refurbishment of Dairy Effluent Treatment Plant

This project involved the upgrading of an existing effluent treatment plant to accommodate the increased load envisaged following a plant expansion. The plant was designed to handle up to 3,700 m³ per day of effluent, a proportion being discharged to river, the balance being discharged to sewer.



Turnkey Dairy Effluent Project

The site is located in a particularly sensitive area with no access to municipal sewers. The river into which treated effluent flows is extremely sensitive and under very close monitoring by both the EA and English Nature. The old plant consisted of a number of stone filters and was drastically undersized following a plant expansion.



Full Treatment of Pet Food Effluent

CAP Technology provided this system to fully treat all site effluent for discharge to watercourse.

The project involved raw effluent collection, balancing, DAF clarification and final clarification. The final effluent was passed through a reed bed prior to either recovery of discharge to river.



DAF Plant for Food Industry

CAP Technology provided a DAF clarification system for a food factory in the South West. The project ensured full compliance with the consent limits imposed by South West Water and achieved significant financial benefits.



Dairy



*720m³/day Biological Treatment
Discharge to sewer*

Soft Drinks Factory



*100m³/hour effluent balancing
and pH correction*

Egg Processing Factory



*500m³/day
Full Treatment to Sewer*

Food factory



*250m³/day
Discharge to sewer*

Turkey Abattoir



*600m³/day
Discharge to river*

Paper Mill Clarifier



22 m diameter Clarifier

CAP Technology Design of SAF Reactor

CAP Technology has developed a unique 'submerged aerated filter'. The principle advantages of the system are:

- *Compact plant resulting from the high loading rates that the system is capable of handling*
- *Reliable performance with minimal operator supervision*
- *Low levels of sludge production, typically one third of conventional activated sludge plants*
- *Non-clogging design of media with high surface area per m³*
- *High quality of final effluent*
- *Robust mechanical design*

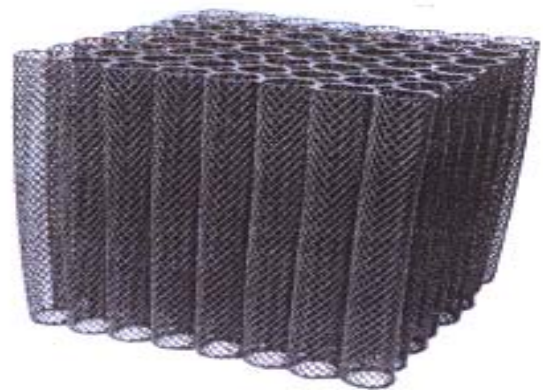
Media



Highly efficient aeration



Bio-blok

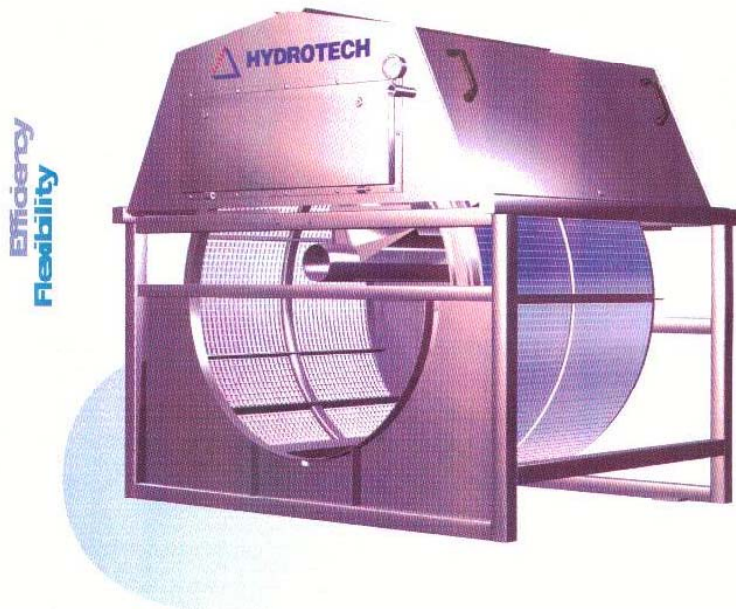


Polish Filtration

Where discharges of treated effluent is made directly into a high quality watercourse, *CAP Technology* usually install a rotary drum filter fitted with a 10-micron mesh. This would guarantee that all effluent contains less than 30 mg/l suspended solids.

This system is an alternative to conventional sand filtration. It requires a low differential head of effluent and uses significantly less backwash water. The backwash water is drawn from an internal reservoir in the filter and therefore does not require excessive retention of filtered effluent.

Drumfilter



CAP Technology Chemicals Division

CAP Technology provides customised treatment programmes for industrial effluent treatment. Custom blends are formulated by our skilled industrial chemists in modern, well equipped laboratories.

We understand the importance of service and technical support in ensuring the on-going effectiveness of the chemical programme. Hence, once a suitable chemical programme has been established the continued monitoring of its performance is equally important in ensuring the programme's success. We can deliver chemicals from as little as 25kg to 22 tonnes and provide on-site support and servicing to our customers. This means a flexible and prompt response at all times.

By determining the most suitable chemical treatment, we are able to drastically reduce effluent charges, ensure compliance with consent limits and produce significant colour reduction. This can all be provided at competitive prices and provides a cost effective solution for effluent. A comprehensive package of chemical dosing facilities are also available.

CAP Technology is currently supplying chemical treatments to a wide variety of industries, including the following:

<i>Food</i>	-	<i>Chemical</i>
<i>Dairies</i>	-	<i>Leather</i>
<i>Textiles</i>	-	<i>Laundries</i>
<i>Paper</i>	-	<i>Ceramic</i>
<i>Wool Scouring</i>	-	<i>Gelatin</i>

