



Sewage by-pass pumps



Engineered for life

Flygt

Flygt rental solution for Anglian Water services

- The Rental Division of leading pump solutions supplier, ITT Flygt, assisted Anglian Water with an innovative pumping solution utilising both diesel and submersible pumps while vital refurbishment work was carried out at their pumping station in Thrapston.



- The temporary by-pass solution was devised by the team at Flygt Rental to intercept flows from a 150mm vitreous clay inlet pipe, using a Bauered by-pass Trelleborg stopper. This system enabled the sump at the Cosy Nook Pumping Station to remain dry while engineers carried out the work. This was of great benefit to the project as the live sump could become operational throughout the night and by-passed again during the day, limiting the overall amount of time that work was carried out.

Flygt rental solution for Anglian Water services

- To achieve the required objective of 60 litres per second at a 35 metre head, the Rental team installed and commissioned a silenced 150mm sewage handling Diesel pump which fed into a Flygt CS3201HT 30kW electric submersible pump.
- Flygt Rental also employed a standby system featuring the same equipment to cover every eventuality. Both Diesel pumps were fitted with a high/low level float control system, which maximised fuel efficiency and reduced running costs while the assignment was carried out.
- One of the key requirements of the project was for low levels of noise pollution, as the pumping station was situated in a built-up residential area. Flygt's super-silent pumps were able to work throughout the night.

Chris Graham, ITT Flygt Rental Manager comments: *“This was a unique project with both diesels and submersible pumps working together to provide the solution. It also demonstrated Flygt Rental’s ability to provide packages at a high standard of service and technical competence.”*

Flygt rental solution for Anglian Water services

- As well as commissioning the pumps, Flygt rental wired the control system to Anglian Water's telemetry so they were able to instantly access key data relating to the pumps. It offered the customer complete transparency and peace of mind.



Power Station rental solution

- ITT Flygt's Rental business recently created a pumping solution for the UK's largest Power Station, Drax in Selby, which facilitated maintenance and cleaning of important sluice valves.
- The Flygt Rental team ensured round the clock service was maintained while the work was carried out.



- Before work on the sluice valves within the station's return pit could begin, they needed to be by-passed, dredged and kept dry.
- Flygt carried out an extensive assessment on site before installing a specially designed solution. This utilised four 150GP Deci-Pac Diesel Pumps, with each providing a flow of 300 cubic metres per hour.

Power Station rental solution

- Flygt Rental's prime assisted Diesel pumps are some of the newest available in the rental market and are all of the super-silent type (averaging just 63 dBa @ 7 Metres).
- With optimum performance and environmental issues in mind, the 150GP Deci-Pac pumps were a perfect solution for the power station's requirements.
- Chris Graham, ITT Flygt Rental Manager comments: *"Drax Power Station is renowned as one of the cleanest and most efficient coal fired power stations in the UK and to be asked to work with such a business is of great significance to the team here. It is also a testament to the quality of the work Flygt Rental provides."*
- The installation was carried out by the Flygt Rental team in conjunction with the operational staff at the Power Station, ensuring that the most cost effective and efficient solution was achieved for the work required and demonstrating Flygt's commitment to both the customer and project.

Power Station rental solution

- Michael Browne, Drax Power Station's Mechanical Co-ordinator adds: "The Diesel Pumps used are clean, efficient and quiet, which were all pre-requisites of the scheme we needed to install. They were also liked by all our operational staff, and assistance from the Rental team was readily available whenever we needed it. Flygt Rental also supplied a service engineer for the entire time the rental pumps were on site."
- Chris Graham concludes: "The Deci-Pacs are ideal for water transfer and general dewatering duties. All the pumps feature fully automatic self priming facilities, providing continuous prime and rapid re-prime capabilities."
- As the primary supplier of emergency, temporary or semi-permanent pumping of non-clean water and effluent, Flygt Rental principally serves the municipal, construction, quarrying and mining industries. Specialising in the rental of submersible pumps, mixers, aerators and prime assisted diesel pumps from Flygt's own range, the service includes the design, installation and commissioning of basic packages right up to full turnkey packages.