

Case study 623

Kent weir undergoes renovation

Specifically designed to alter the flow characteristics of water bodies, weirs and similar barrages help eliminate flood risks whilst ensuring local residents benefit from a reliable, clean water supply. Weirs also play an important role in keeping a region's sewage treatment works fully operational and maintaining a healthy level of water in rivers – the Medway in this instance.

An investigation into one of Kent's most significant weirs led safety officers to conclude that ageing brickwork was in poor condition, and thus not meeting modern requirements. Consequently, the Environment Agency appointed an international company specialising in coastal and flood defence to build a new weir. This project also meant the existing structure would have to be demolished before concrete reinforcements could be put in place.

In order to proceed, the team had to construct a temporary dam so engineers could carry out work in dry conditions and maintain the flow without affecting the functionality of a nearby sewage treatment plant. As the UK's leading provider of pump hire solutions, we were approached by the contractor in charge and asked to supply units suitable for a low river level.

It was decided that a series of PX12N 6" submersible pumps would be appropriate during the assignment's infancy, but these were later changed to larger 10" solids handling submersibles when water levels were higher. Each unit was connected to a super-silenced generator via 12" delivery lines to ensure the risk of noise pollution was minimised.

Our equipment remained on site for approximately five months in total and performed efficiently throughout the development's entirety. The customer was also very complimentary about our service and products, deciding to use us on a separate project a short while after the original one was completed.



Motor type 415V 3 Ph 50 Hz
Motor rating 22kW
Max power input 24kW
Running current 44 Amps
Discharge spitgot 4" or 6" Bauer
Dimensions (mm) 915 x 570
Weight 160kg



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