

Case study 649

Sykes provide pump hire for one of the UK's busiest airports

A major international airport in south-east England recently contacted Sykes Pumps in search of a temporary pumping solution that would help prevent the breaching of the embankment of one of their run off water ponds.

Gatwick Pond E collects run off water from the airport's runway, which is released into the River Mole downstream. Variable flow rates in the river can be caused by periods of wet weather or increased outputs from the local water recycling centre which is located upstream, prompting the river to spill into the pond and creating a potential flood risk.

To overcome that risk, Gatwick Airport commissioned improvement works to the River Mole in the Pond E area, ensuring that the river can hold variable volumes of water at that point. To carry out these works, our client needed an over-pumping solution that could reliably keep the work area dry enough for the safety and integrity of the installation.

Initially, our specialists supplied three 12" Super Wispaset 300 Super Silenced Pumps. Two of these diesel pump rentals were used to over pump the water between two sandbagged dams to a discharge point downstream, with a third on site as a standby.

However, increased flow rates meant the customer needed to use the third pump as a duty pump, along with three additional pumps which were used to address any water seeping through the dam at each end of the work area.

Originally scheduled as a six-week programme, the project was completed in record timing, finishing a week early. Our swift response was pivotal in avoiding potential flood risks by redirecting water into various outlets.



Performance: Max head: 18 m Max flow: 415 l/s
Max solid: 70 mm
Weight: 3913 kg with fuel
3500 kg without fuel
Noise level: @ 10m = 66 dBA
Fuel tank capacity: 480 litres. Max 24 hours
Discharge flange: 12" DN 300 PN 10
Optional Bauer Couplings
Fuel consumption: Full load @ 1800 rpm:
14.9 litres/hour
Dimensions: 3300 x 1180 x 2700 (L x W x H) mm
Energy Efficient Fuel Consumption @ 1500 rpm:
duty point: 13.6 litres/hour
Pipe connections: Suction flange: 12" DN 300 PN 1



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