

Application story



Dust Supression and Odour Control

Location	UK	Hydra-Cell model	G03XKBTHFECA / G10XKBTHFECA
Type of application	Dust Supression and Odour Control	Flow rate	G03 Up to 11 l/min (3 gpm) / G10 Up to 30 l/min (8 gpm)
Liquid	Water	Pressure	50 bar (725 psi)
Application details	When this UK odour control system builder expanded into the landfill site market it needed a reliable pump to deliver water based deodorant solutions to spray nozzles mounted on the perimeter fences of landfill sites. There can be as many as 400 nozzles, at 1.5m centres in the system. To cover distances of several hundred metres, and for satisfactory atomization, the liquid must be pumped at high pressure. On/Off switching is automatically controlled by wind directional technology (protecting nearby householders from odours) but the pump must be ready to operate 24/7 if called on. The pumps originally chosen by the OEM were high pressure piston pumps. But in the harsh, dusty conditions of landfill sites their vulnerability to seal wear let them down and they could not sustain continuous duty. Within weeks the company's service engineers were continually called out by site operators anxious to avoid public complaints about odours. Pump faults interrupting odour control ranged from oil leaks (new O rings) to leaking valves and cracked ceramic pistons. With the company's reputation for reliability and good service under threat, it looked for a pump that could handle the pressure requirement of 50 bar, work on continuous duty and match conditions effectively – especially with regard to sealing arrangements. Hydra-Cell seal-less technology offered the solution. All piston pumps were replaced with the G10. A year later the company MD was able to report that since switching to Hydra-Cell "we have not had a single failure. Site visits have been just for normal servicing. The pump has saved us many man hours and equipment replacement costs – and most importantly, our reputation."		
Advantages of Hydra-Cell pump on this application	Seal-less design. Ability to handle dust particles. Reliability. Low maintenance.		

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