

Application story



Solvent Waste (2)

Location	UK	Hydra-Cell model	G25EDSJHFEHB
Type of application	Solvent Incineration	Flow rate	Up to 65 l/min (17 gpm)
Liquid	Solvent Waste	Pressure	4 bar (58 psi)
Application details	This pharmaceutical manufacturer chose Hydra-Cell G25 pumps for handling recycled solvents when these materials reach the end of their useful working life at the company's pharmaceutical research facility at Sandwich in the UK, where it operates trial and proving production processes. Large quantities of solvents are used here in the recovery of various pharmaceutical products. The solvents are cleaned and recycled, but eventually become unusable and must be disposed of. Being aggressive and highly toxic, some of these solvents cannot be transported off site – instead all are injected into the burners of a combined heat and power plant and the exhaust gases are scrubbed. The G25 pumps (1 each for the organic and inorganic silos and 1 on switchable standby) deliver the solvent mix safely to the burner nozzles. The Hydra-Cell's seal-less design prevents the leakage of hazardous solvent and tolerates any abrasive particles contained in the mix. On this application Teflon was the preferred diaphragm material, chosen for its ability to resist a wide range of chemicals. Low-pulsation positive displacement pumping and VFD drive allow tight control of flow to the burner nozzles.		
Advantages of Hydra-Cell pump on this application	Seal-less design. Abrasion resistance and chemical resistance of Teflon diaphragms over a wide range aggressive chemicals. Simple control of flow to burner nozzles by means of frequency inverter system to control pump speed.		

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