

Application story



Cleaning IBC's with High Pressure Hot Water (2)

Location	Netherlands	Hydra-Cell model	G15XDBGHFEMF x 4
Type of application	Cleaning IBC's with High Pressure Hot Water (2)	Flow rate	18-47 l/min (5-12 gpm)
Liquid	Hot Water	Pressure	120 bar (1740 psi)
Application details	An automatic energy-efficient high-pressure hot water cleaning system for IBCs has been designed and built by PromoTec BV in collaboration with industrial cleaning equipment specialist DiBO FIS. Incorporating 4 Hydra-Cell G15 pumps fed by a magnetically driven centrifugal pump, the skid-mounted system is designed to deliver clean hot water from a centralised position to independent cleaners working remotely. The system was built to the requirements of end-user Tholu BV, supplier of IBCs and other containers on sale or rental. Control is fully automatic. The first G15 high-pressure pump acts as master. It is frequency controlled, while the three G15 'slave' pumps are activated by PLC control as needed. The system is arranged so that hot water is always delivered at consistent pressure to each cleaning lance position at the required flow rate – total flow varying to match demand. This ensures economical use of energy, while also saving on the working hours of each individual pump. Hot water is an effective cleaning medium, accelerating the cleaning process and saving user time, though it makes pump selection more critical. Hydra-Cell pumps were chosen for their known reliability, and in particular for their ability to deliver water at high pressure and temperature without need to cool the pump. The system is designed to operate at 120 bar pressure and 80°C. And safeguards are built in. A second centrifugal pump is provided as standby for inlet feeding duty and the entire skid is planned for easy maintenance access. The simple build of the Hydra-Cell pumps makes them exceptionally easy to maintain. Moreover during maintenance, or should one of them fail, the entire unit can continue in operation.		
Advantages of Hydra-Cell pump on this application	High pressure capability. Seal-less design. Dry running. Low maintenance. Reliability. Ability to handle hot water at high pressure without need to cool the pump.		

www.hydra-cell.co.uk

Wanner Engineering -
World Headquarters & Manufacturing
Minneapolis USA
t: (612) 332-5681
e: sales@wannereng.com

Wanner International
Hampshire UK
t: +44 (0) 1252 816847
e: sales@wannerint.com

Wanner Pumps
Shanghai CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com

Wanner Pumps
Kowloon HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com