

Application story



Benzene, Toluene and Xylene Processing

Location	Russia	Hydra-Cell model	G10XKCGHFEHH
Type of application	Hydrocarbon Production - Reactor Feed	Flow rate	25 L/min (6.6 gpm)
Liquid	Benzol Toluene Xylene	Pressure	12 - 20 bar (175 - 290 psi)
Application details	The new YAYA oil refinery project in the Kemerovo region of Russia with a forecast capacity of 6 million tons per year is pivotal in the development of fuel and energy in Western Siberia and the country as a whole. In a process to purify BTX (Benzene Toluene Xylene) aromatic hydrocarbons by removing sulphur compounds, YAYA LLC needed a low pulsation pump to transfer this non-lubricating liquid to the catalytic converter. Pulsation can damage and destroy the catalytic cells within the converter. A Hydra-Cell G10 pump was selected in preference to a Swedish screw pump because of its superior ability to handle non-lubrication liquids. Unlike other pumps with dynamic seals and internal bearing surfaces that are lubricated by the pumped liquid, Hydra-Cell pumps have no seals or rotating parts that sit within the pumped liquid that are prone to wear. A small pulsation dampener was installed in the system to turn the already very low pulsation into no pulsation. The efficiency of the Hydra-Cell combined with its high reliability and zero seal maintenance requirement were also factors that impressed the customer.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Ability to handle this hot, non-lubricating liquid with ease. - Seal-less design, offering a 100% contained solution.		

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