

Application story



Pumping Polyol for Insulation Panels

Location	Russia	Hydra-Cell model	G10XRCTHFECA
Type of application	Pumping Polyol for Insulation Panels	Flow rate	30 L/min (7.9 gpm)
Liquid	Polyol	Pressure	6 bar (90 psi)
Application details	Hydra-Cell® Pumping Polyol in Insulated Panel Production PirroGroup is a relatively new company having been founded in 2012 but it is already one of the largest structural insulated panel manufacturers in Russia with an annual production of some 10,000,000m². The Company has pioneered the use of Polyisocyanurate (PIR), a material similar to polyurethane but with higher thermal stability. For feeding polyol into the production line cisterns, the Company chose between a Hydra-Cell pump and an air operated double diaphragm pump. A Hydra-Cell G10 pump was favoured as a result of its smoother flow, more compact size and its ability to work outdoors in low temperatures down to 0°C. Also, the Hydra-Cell pump is able to feed the liquid through long pipes without a significant pressure drop, as was not the case with the AOD pump. The Hydra-Cell is also more energy efficient, needing less than 1kW for this application. Due to the Hydra-Cell pumps constant flow rate, independent of pressure, there was no drop off of flow rate, unlike with the AODD pump. The AODD pump uses 430% more energy than the Hydra-Cell pump.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - With multiple diaphragms in a single pump head, this offers a virtually pulse-less flow without the need to expensive pulsation dampeners. - Far more energy efficient than the alternative option.		

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