

Application story



Filter Cleaning - Paper and Pulp Mill - Energy Saving

Location	Sweden	Hydra-Cell model	G25XKCTHFECA
Type of application	Filter Cleaning - Paper and Pulp Mill	Flow rate	70 l/min (18 gpm)
Liquid	Recycled Water	Pressure	50 bar (725 psi)
Application details	Filters collecting lime mud in the Kristinehamn mill are cleaned with re-cycled water - ideally at 50 bar pressure. The multi-stage centrifugal pump originally installed could work only up to 30 bar. Moreover, operational costs associated with this pump were very high, due partly to frequent and expensive replacements of seals and bearings and particularly to heavy power consumption. With the pump drawing 30 kW and continuous usage, annual expenditure on energy alone was SEK 75000 (c.7800 €). In its place, Bäckhammar installed a Hydra-Cell G25 pump, with a performance more than equal to the needs of the mill, but drawing only 3 kW of power. Initial outlay on the new pump was 25-50% less than the multi-stage centrifugal units originally considered as replacements. Filter pump energy consumption was cut by 90% and the Hydra-Cell unit has proved hard-wearing and easy to maintain. The initial investment was recovered in less than a year, while annual cost savings of SEK 60-70000 (c. 6200-7300 €) continued to accrue. The mill was also able to raise the pressure of the cleaning water to 50 bar, making cleaning more efficient and raising filter capability.		
Advantages of Hydra-Cell pump on this application	Savings up to 50% on initial purchase. Massive energy savings through high pump efficiency. Seal-less design with no vulnerable wearing parts simplified maintenance and reduced repair costs. Ability to handle recycled water without fine filtration. Pressure capability (up to 70 bar) allowed cleaning system to work more efficiently.		

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