

Application story



Amine Processing

Location	Hungary	Hydra-Cell model	G10XKSAHFEHG
Type of application	Amine Column Circulation and Input	Flow rate	15 l/min (4 gpm)
Liquid	Amine Ammonia	Pressure	70-80 bar (1000-1160 psi)
Application details	This long-established plant in the west of Hungary manufactures amines for use as catalysts in the production of polyurethane foam. In 1997 the old plant was acquired by a global manufacturer of speciality chemicals, who introduced a modernisation programme. As part of this, old piston pumps were gradually replaced on dosing operations by new diaphragm metering pumps (various leading brands being always considered) and these were also installed in sections newly added to the plant. However, traditional diaphragm metering pumps have their own disadvantages – including physical bulk, high initial cost and the cost of spare parts. In these areas and others the Hydra-Cell offers a more competitive alternative – saving on space, purchase cost and operating cost, including energy and spare parts. Smooth, low-pulse flow at a consistent rate is another important feature on this application. Encouraged also by the evident success of a G10 installed in a neighbouring fertiliser plant, the amine producer purchased four G10 pumps for operation in its own processes. The pumps are working in a designated area where protection against explosion risk to ATEX class IIC is required. They are handling aggressive amines at high pressures (up to 80 bar).		
Advantages of Hydra-Cell pump on this application	Low energy cost. Beneficial price. Small footprint. Consistently smooth flow.		

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