

FOOD & BEVERAGE INDUSTRY

Quick STUDY

Hydra-Cell[®]
Seal-less Pumps

www.Hydra-Cell.com

Location:	Denmark
Application:	Pumping calcium carbonate
Media:	• Water • Calcium carbonate
Model No.:	H25XKCTHFECA
Flow Rate:	7.7 gpm (29 l/min)
Pressure:	145 psi (10 bar) maximum
Hydra-Cell Advantages:	• Energy savings • Ability to handle particulates • Ability to handle non-lubricating liquids



Calcium Carbonate Solution Extends Sugar Drying Press Life

Hydra-Cell H25 pumps have been in use for about ten years in a sugar refining plant in Denmark. The process - producing refined product from raw sugar beet - requires the sugar to be pressed and dried. The life of the press is extended by injecting a low-concentration solution of water and calcium carbonate, which is mixed before entering the pump.

The plant runs two H25 units as duty pumps, with a third H25 as back-up. The pumps operate at 400 rpm, with discharge pressure less than 145 psi (10 bar). The outdoor picture shows the heating plant to which the solution is pumped.

Characteristics of Fluid Pumped:

☒ Contains Abrasives ☐ Corrosive ☒ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☒ Non-lubricating ☐ High-viscosity (>500 cPs)