

AGRICULTURE

Quick STUDY

Hydra-Cell®
Seal-less Pumps

www.Hydra-Cell.com

Location:	United Kingdom
Application:	Cleaning vegetables
Media:	• Water - recycled
Model No.:	D35XKCTHFEHA
Flow Rate:	26 gpm (100 l/min)
Pressure:	145 psi (10 bar)
Hydra-Cell Advantages:	• Seal-less design, enabling trouble-free use of recycled water and avoiding premature seal wear • Higher-pressure capability



Cleaning Vegetables with Recycled Water

A cleaning equipment manufacturer in the UK had previously installed centrifugal pumps on his automatic cleaning machines; however, customers using machines fitted with these pumps reported premature seal wear and failure of flow and pressure at the spray bar.

In an effort to eliminate these problems and improve performance, the manufacturer decided to replace the centrifugal pumps with Hydra-Cell D35 pumps. The first D35 was installed in 2011 on a cleaning machine for a customer in Poland for cleaning vegetables with recycled water.

This equipment change provided major benefits. The system pressure could be doubled from 72.5 to 145 psi (5 to 10 bar), raising cleaning efficiency and enabling water usage to be halved. Flow rates were reduced from 52.8 to 26.4 gpm (200 to 100 l/min) and cleaning became more effective. Equipment failures and erratic performance associated with seal wear disappeared.

A second D35 pump purchased by the OEM will go into the next machine.



Characteristics of Fluid Pumped:

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