

CLEANING & WASHING

Quick

STUDY

Hydra-Cell
Seal-less Pumps

www.Hydra-Cell.com

Location:	Germany
Application:	Cleaning IBCs
Media:	• Recycled water
Model No.:	H25XKCEHFEHA
Flow Rate:	18 gpm (67 l/min)
Pressure:	1000 psi (69 bar)
Hydra-Cell Advantages:	• Seal-less design, with all drive parts of the pump isolated from possibility of chemical attack • Ability to handle a wide range of dirty or contaminated liquids at high temperatures • Ability to maintain constant flow regardless of pressure



Automatic Cleaning System for IBC Containers

Hydra-Cell H25 pumps were chosen to provide hot water at 1000 psi (69 bar) pressure in this two-stage automatic system for cleaning used IBC containers. Each pump feeds a rotating tank wash unit fitted with straight stream spray nozzles that rotate to cover the entire internal surface of the IBC. Both stages of the operation use recycled water, heated in separate tanks.

At Stage 1, the first Hydra-Cell pump draws water from the “dirty” tank delivering it at pressure to the cleaning head to give a 3-minute preliminary wash. The IBC automatically moves on to Stage 2, where the second Hydra-Cell pump draws from the “clean” tank and another washer performs its 3-minute cycle.

The two systems each include a centrifugal pump to remove used water from the IBC and return it to tank. Body and elastomer materials in the Hydra-Cell pumps were chosen for resistance to a wide range of cleaning chemicals and because they would allow future increases in the temperature of the wash water if necessary.

Characteristics of Fluid Pumped:

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